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IEEE JNL IEEE Journal or Magazine  
 IEE JNL IEE Journal or Magazine  
 IEEE CNF IEEE Conference Proceeding  
 IEE CNF IEE Conference Proceeding  
 IEEE STD IEEE Standard

## 1. A temporal access control mechanism for database systems

Bertino, E.; Bettini, C.; Ferrari, E.; Samarati, P.

[Knowledge and Data Engineering, IEEE Transactions on](#)

Volume: 8 Issue: 1 Feb 1996

Page(s): 67-80

Digital Object Identifier 10.1109/69.485637

**Summary:** The paper presents a discretionary access control model in which authorization temporal intervals of validity. An authorization is automatically revoked when the associated interval expires. The proposed model provides rules for the.....

[AbstractPlus](#) | [References](#) | Full Text: [PDF](#) IEEE JNL

## 2. A logic for state transformations in authorization policies

Yun Bai; Varadharajan, V.

[Computer Security Foundations Workshop, 1997. Proceedings., 10th](#)

10-12 Jun 1997

Page(s): 173-182

Digital Object Identifier 10.1109/CSFW.1997.596810

**Summary:** In a multi-user information-sharing system, an authorization policy provides and control access to system, applications and information. In the real world, an authorization temporal properties. That is, it needs to be .....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

## 3. Biometric identification through speaker verification over telephone lines

Gonzalez-Rodriguez, J.; Gruz-Llanas, S.; Ortega-Garcia, J.

[Security Technology, 1999. Proceedings. IEEE 33rd Annual 1999 International Conference on](#)

1999

Page(s): 238-242

Digital Object Identifier 10.1109/CCST.1999.797919

**Summary:** In this paper, the identity of a remote user is verified through his voice by a telephone in order to gain access to a specific system or service. We have used state-independent speaker modeling algorithms, likelihood .....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

## 4. A fast automaton-based method for detecting anomalous program behaviors

Sekar, R.; Bendre, M.; Dhurjati, D.; Bollineni, P.

[Security and Privacy, 2001. S&P 2001. Proceedings. 2001 IEEE Symposium on](#)

2001

Page(s): 144-155

Digital Object Identifier 10.1109/SECPRI.2001.924295

**Summary:** Anomaly detection on system call sequences has become perhaps the most approach for detecting novel intrusions. A natural way for learning sequences is to use automaton (FSA). However previous research indicates that FSA-learning.....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

5. **Performance analysis on new biometric gait motion model**  
 ChewYean Yam; Nixon, M.S.; Carter, J.N.  
Image Analysis and Interpretation, 2002. Proceedings. Fifth IEEE Southwest Symposium on  
 2002  
 Page(s): 31-34  
 Digital Object Identifier 10.1109/IAI.2002.999884  
**Summary:** Recognising people by the way they walk and/or run is new. A novel analysis is invariant to human gait of walking and running is developed based on the concept of coupled oscillators and the biomechanics of human walking and.....  
[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)
6. **Design validation of ZCSP with SPIN**  
 Beaudenon, V.; Encrenaz, E.; Desbarbieux, J.-L.  
Application of Concurrency to System Design, 2003. Proceedings. Third International Conference on  
 18-20 June 2003  
 Page(s): 102- 110  
 Digital Object Identifier 10.1109/CSD.2003.1207704  
**Summary:** We consider the problem of specifying a model of the zero copy secured purpose of LTL verification with the SPIN model checker. ZCSP is based on direct memory access. Data is directly read/written in user space memory, decreasing latency.....  
[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)
7. **sTuples: semantic tuple spaces**  
 Khushraj, D.; Lassila, O.; Finin, T.  
Mobile and Ubiquitous Systems: Networking and Services, 2004. MOBIQUITOUS 2004. Proceedings. Annual International Conference on  
 22-26 Aug. 2004  
 Page(s): 268- 277  
 Digital Object Identifier 10.1109/MOBIQ.2004.1331733  
**Summary:** Tuple spaces offer a coordination infrastructure for communication between entities by providing a logically shared memory along with data persistence, transaction support as well as temporal and spatial decoupling - properties that make them suitable for mobile and ubiquitous systems.....  
[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)
8. **A first step towards formal verification of security policy properties for RBAC**  
 Drouineaud, M.; Bortin, M.; Torrini, P.; Sohr, K.  
Quality Software, 2004. QSIC 2004. Proceedings. Fourth International Conference on  
 8-9 Sept. 2004  
 Page(s): 60- 67  
 Digital Object Identifier 10.1109/QSIC.2004.1357945  
**Summary:** Considering the current expansion of IT-infrastructure, the security of the infrastructure becomes increasingly important. Therefore, assuring certain security properties of systems by formal methods is desirable. So far in security.....  
[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)
9. **Analysis and Modeling of Advanced PIM Architecture Design Tradeoffs**  
 Upchurch, E.; Sterling, T.; Brockman, J.  
Supercomputing, 2004. Proceedings of the ACM/IEEE SC2004 Conference  
 06-12 Nov. 2004  
 Page(s): 12- 12  
 Digital Object Identifier 10.1109/SC.2004.11  
**Summary:** A major trend in high performance computer architecture over the last two decades is the migration of memory in the form of high speed caches onto the microprocessor semiconductor. Where temporal locality in the computation is high, caches prove.....  
[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)
10. **Token based path authorization at interconnection points between hybrid network and lambda grid**  
 Gommans, L.; de Laat, C.; Meijer, R.  
Broadband Networks, 2005 2nd International Conference on

3-7 Oct. 2005

Page(s): 1378- 1385 Vol. 2

Digital Object Identifier 10.1109/ICBN.2005.1589768

**Summary:** In order to provide cost effective transport services for highly demanding c applications, National Research Networks (NRNs) are considering additional types of network infrastructures. Next to traditional IP access.....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

#### 11. A Scalable and Intrusion-tolerant Digital Time-stamping System

Tulone, D.

[Communications, 2006. ICC '06. IEEE International Conference on](#)

Volume: 5 June 2006

Page(s): 2357-2363

Digital Object Identifier 10.1109/ICC.2006.255122

**Summary:** Secure digital time-stamps play a crucial role in many applications that require correctness of time-sensitive information. Well-known time-stamping systems are based on linking schemes which provide a relative temporal order by linking requests.....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

#### 12. Ubiquitous Semantic Space: A context-aware and coordination middleware for Ubiquitous Computing

Sudha, R.; Rajagopalan, M.R.; Selvanayagi, M.; Selvi, S.Thamarai

[Communication Systems Software and Middleware, 2007. COMSWARE 2007. 2nd International Conference on](#)

7-12 Jan. 2007

Page(s): 1-7

Digital Object Identifier 10.1109/COMSWA.2007.382562

**Summary:** Ubiquitous Computing poses the challenge of increased communication, coordination, and functionality. In a highly dynamic and widely connected ubiquitous environment, communication to the network (synchronous communication) is very difficult.....

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IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

## 1. An n-grid model for group authorization

Wen-Gong Shieh; Weems, B.; Kavi, K.M.

Computer Security Applications Conference, 1990.. Proceedings of the Sixth Annual 3-7 Dec 1990

Page(s): 384-392

Digital Object Identifier 10.1109/CSAC.1990.143813

**Summary:** The n-grid model for group authorization and access control extends the N representation of two-dimensional partial orders and incorporates the implicit authorization model. The n-grid is a representation of multi-dimensional partial .....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

## 2. A temporal access control mechanism for database systems

Bertino, E.; Bettini, C.; Ferrari, E.; Samarati, P.

Knowledge and Data Engineering, IEEE Transactions on

Volume: 8 Issue: 1 Feb 1996

Page(s): 67-80

Digital Object Identifier 10.1109/69.485637

**Summary:** The paper presents a discretionary access control model in which authorization temporal intervals of validity. An authorization is automatically revoked when the associated interval expires. The proposed model provides rules for the .....

[AbstractPlus](#) | [References](#) | Full Text: [PDF](#) IEEE JNL

## 3. Reducing manpower intensive tasks through automation of security technology

Carback, R.T.

Security Technology, 1995. Proceedings. Institute of Electrical and Electronics Engineers 1995 International Carnahan Conference on

18-20 Oct 1995

Page(s): 331-339

Digital Object Identifier 10.1109/CCST.1995.524932

**Summary:** Security in today's government and commercial environments is changing. To provide manpower against security threats is diminishing. Risk management is preferred avoidance. In order for management to ensure that the appropriate .....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

## Multiple intelligent agent supported Internet security system: issues, current and proposed approach

Lin Zeng; Huaqing Wang; Lee, M.K.O.

Intelligent Processing Systems, 1997. ICIPS '97. 1997 IEEE International Conference

Volume: 1 28-31 Oct 1997

Page(s): 920-922 vol.1

Digital Object Identifier 10.1109/ICIPS.1997.672965

**Summary:** The Internet has become a common target to attack because of security concerns of incidents, such as attempted and successful intrusions, have grown dramatically. It has been shown that many individuals and companies are abstaining .....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

Search string:

(cascade or cascaded or sequence or order or ordered) and

(access or entry) and

(security or secure or authorization or authorization)

5. **Specifying application-level security in workflow systems**  
 Olivier, M.S.; van de Riet, R.P.; Gudes, E.  
Database and Expert Systems Applications, 1998. Proceedings. Ninth International W  
 25-28 Aug 1998  
 Page(s): 346-351  
 Digital Object Identifier 10.1109/DEXA.1998.707423  
**Summary:** A workflow process involves the execution of a set of related activities over a specific task. Security requires that such activities may only be performed by authorized order to enforce such requirements, access to the u.....  
[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)
6. **A contextual role-based access control authorization model for electronic patient**  
 Motta, G.H.M.B.; Furuie, S.S.  
Information Technology in Biomedicine, IEEE Transactions on  
 Volume: 7 Issue: 3 Sept. 2003  
 Page(s): 202- 207  
 Digital Object Identifier 10.1109/TITB.2003.816562  
**Summary:** The design of proper models for authorization and access control for electronic record (EPR) is essential to a wide scale use of EPR in large health organizations. In this paper, we propose a contextual role-based access control authorization model.....  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#) [IEEE JNL](#)
7. **Human computer interaction through consolidation and visualization for order entry**  
 Toyoda, S.; Niki, N.; Nishitani, H.  
Engineering in Medicine and Biology Society, 2003. Proceedings of the 25th Annual International Conference of the IEEE  
 Volume: 2 17-21 Sept. 2003  
 Page(s): 1280- 1283 Vol.2  
 Digital Object Identifier 10.1109/IEMBS.2003.1279500  
**Summary:** In this paper, we propose a human computer interaction model through consolidation and visualization for order entry systems. This model makes effective use of the patient data features 1) the consolidation of order data, 2) the visualization.....  
[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)
8. **Secure access to corporate resources in a multi-access perspective: needs, problems and solutions**  
 Casole, M.; Yi Cheng  
Personal Mobile Communications Conference, 2003. 5th European (Conf. Publ. No. 4)  
 22-25 April 2003  
 Page(s): 482- 489  
**Summary:** The modern businessman needs to access corporate resources constantly from anywhere, thus improving effectiveness. In order to accomplish this, a number of technologies allow mobile users to be connected to some kind of network.....  
[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)
9. **A first step towards formal verification of security policy properties for RBAC**  
 Drouineaud, M.; Bortin, M.; Torrini, P.; Sohr, K.  
Quality Software, 2004. QSIC 2004. Proceedings. Fourth International Conference on  
 8-9 Sept. 2004  
 Page(s): 60- 67  
 Digital Object Identifier 10.1109/QSIC.2004.1357945  
**Summary:** Considering the current expansion of IT-infrastructure, the security of the IT infrastructure becomes increasingly important. Therefore, assuring certain security properties of systems by formal methods is desirable. So far in security.....  
[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)
10. **Database security - concepts, approaches, and challenges**  
 Bertino, E.; Sandhu, R.  
Dependable and Secure Computing, IEEE Transactions on  
 Volume: 2 Issue: 1 Jan.-March 2005

Page(s): 2- 19

Digital Object Identifier 10.1109/TDSC.2005.9

**Summary:** As organizations increase their reliance on, possibly distributed, informatic daily business, they become more vulnerable to security breaches even as they gain efficiency advantages. Though a number of techniques, such.....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE JNL

#### 11. Security service adaptation for embedded service systems in changing environr

Il Iner, S.; Pohl, A.; Krumm, H.

Industrial Informatics, 2004. INDIN '04. 2004 2nd IEEE International Conference on  
24-26 June 2004

Page(s): 457- 462

Digital Object Identifier 10.1109/INDIN.2004.1417387

**Summary:** Distributed embedded applications increasingly operate in changing enviro the application security depends on the type and properties of the currently used comr services and employed devices. While vulnerabilities, threats, and .....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

#### 12. Random-access control mechanisms using adaptive traffic load in ALOHA and C for EDGE

Rivero-Angeles, M.E.; Lara-Rodriguez, D.; Cruz-Perez, F.A.

Vehicular Technology, IEEE Transactions on

Volume: 54 Issue: 3 May 2005

Page(s): 1160- 1186

Digital Object Identifier 10.1109/TVT.2005.844657

**Summary:** In this paper, three random access control mechanisms based on the well ALOHA, NP-CSMA, and 1P-CSMA protocols are presented. The basic idea is to limit t transmissions and retransmissions at high traffic loads in order to m.....

[AbstractPlus](#) | [References](#) | Full Text: [PDF](#) IEEE JNL

#### 13. New authentication method for mobile centric communications

Hongyuan Chen; Sivakumar, T.V.L.N.

Vehicular Technology Conference, 2005. VTC 2005-Spring. 2005 IEEE 61st

Volume: 5 30 May-1 June 2005

Page(s): 2780- 2784 Vol. 5

Digital Object Identifier 10.1109/VETECS.2005.1543853

**Summary:** This paper proposes a new authentication scheme for accessing contents applications in both mobile device and Internet. A user first divide all the contents, sen applications in both mobile device and the Internet into four gr.....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

#### 14. Job -centric security model for open collaborative environment

Demchenko, Y.; de Laat, C.; Gommans, L.; Oudenaarde, B.; Tokmakoff, A.; Snijders, I

Collaborative Technologies and Systems, 2005. Proceedings of the 2005 International  
15-20 May 2005

Page(s): 69- 77

Digital Object Identifier 10.1109/ISCST.2005.1553296

**Summary:** This paper describes the design and development of a flexible, customer infrastructure for open collaborative environments. The experiences were gained withi of the collaboratory.nl project. The work is based on exten.....

[AbstractPlus](#) | Full Text: [PDF](#) IEEE CNF

#### 15.

##### Exploiting Hierarchical Identity-Based Encryption for Access Control to Pervasive Information

Hengartner, U.; Steenkiste, P.

Security and Privacy for Emerging Areas in Communications Networks, 2005. Secure(  
International Conference on

05-09 Sept. 2005

Page(s): 384- 396

Digital Object Identifier 10.1109/SECURECOMM.2005.18

**Summary:** Access control to confidential information in pervasive computing environment is challenging for multiple reasons: First, a client requesting access might not know which are necessary in order to be granted access to the requested information....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

**16. A Multi-dimension Rule Update in a TCAM-based High-Performance Network Set**

Hae-Jin Jeong; Il-Seop Song; Taeck-Geun Kwon; Yoo-Kyoung Lee

[Advanced Information Networking and Applications, 2006. AINA 2006. 20th International](#)

Volume: 2 18-20 April 2006

Page(s): 62- 66

Digital Object Identifier 10.1109/AINA.2006.37

**Summary:** Network security systems such as firewall and intrusion prevention system packet classification rule to allow or protect the network traffic. In addition, they are for multi-gigabit speed in order to deploy the current Internet....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

**17. Frameworks for Secured Business Process Management Systems**

Haeng-Kon Kim; Roger Y. Lee; Hae-Sool Yang

[Software Engineering Research, Management and Applications, 2006. Fourth International](#)

09-11 Aug. 2006

Page(s): 57- 65

Digital Object Identifier 10.1109/SERA.2006.38

**Summary:** This paper formally defines a role-driven security and access control model process in order eventually to provide a theoretical basis for realizing the secured business management systems. That is, we propose a graphical representation....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

**18. Design of security state machine of access control for control object based on II**

Bin Duan; Bing Liu

[Power Engineering Society General Meeting, 2006. IEEE](#)

18-22 June 2006

Page(s): 3 pp.-

Digital Object Identifier 10.1109/PES.2006.1709328

**Summary:** Access control with identity authentication becomes crucial for critical circuit operation in the substation automation system. According to IEC 61850, the implementation control policy depends on a virtual access view. But the station....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

**19. Security Constraints in Access Control of Information System Using UML Language**

Ane ta Poniszewska-Maranda

[Enabling Technologies: Infrastructure for Collaborative Enterprises, 2006. WETICE '06 International Workshops on](#)

June 2006

Page(s): 332-337

Digital Object Identifier 10.1109/WETICE.2006.58

**Summary:** Process of security administration in an information system is a complex task. Constraints should be expressed in order to define in the proper way the security policy. Constraints can be classified into two groups. The first....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

**20. Quantifiable Security Metrics for Large Scale Heterogeneous Systems**

Syed Naqvi; Michel Riguidel

[Carnahan Conferences Security Technology, Proceedings 2006 40th Annual IEEE International](#)

Oct. 2006

Page(s): 209-215

Digital Object Identifier 10.1109/CCST.2006.313452

**Summary:** The exponential growth of information technology and the prospect of increased access to the computing, communications, and storage resources have made these systems vulnerable to attacks. Use of heterogeneous devices and communication links....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

#### 21. Security for FTTx Optical Access Networks

Valid Shawbaki; Ahmed Kamal

[Local Computer Networks, Proceedings 2006 31st IEEE Conference on](#)  
Nov. 2006

Page(s): 221-228

Digital Object Identifier 10.1109/LCN.2006.322103

**Summary:** Passive optical networks (PONs) is the answer to increasing demand on b enabler for Fiber To The x (FTTx) implementation, where x can be Home (FTTH), Curl Building (FTTB). However, PONs use shared fiber link with broadcast a.....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

#### 22. Chaotic functions for generating binary sequences and their suitability in Multip

Mandi, Mahalinga V.; Murali, R.; Haribhat, K.N.

[Communication Technology, 2006. ICCT '06. International Conference on](#)  
Nov. 2006

Page(s): 1-4

Digital Object Identifier 10.1109/ICCT.2006.341812

**Summary:** Chaotic sequences have good correlation properties and they can be used sequences in Spread Spectrum Communication. Chaotic functions are highly sensitive condition and exhibit non-linear behavior. In Chaotic spread spectrum com.....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

#### 23. Concurrency Control using Subject- and Purpose-Oriented (SPO) View

Enokido, Tomoya; Takizawa, Makoto

[Availability, Reliability and Security, 2007. ARES 2007. The Second International Conf](#)  
10-13 April 2007

Page(s): 454-464

Digital Object Identifier 10.1109/ARES.2007.60

**Summary:** In information systems, multiple transactions issued by subjects manipulat conflicting way. Conflicting access requests from multiple transactions have to be serie various ways to order multiple access requests like FIFO.....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

#### 24. Context-Aware Access Control Making Access Control Decisions Based on Con

Lachmund, Sven; Walter, Thomas; Gomez, Laurent; Bussard, Laurent; Olk, Eddy

[Mobile and Ubiquitous Systems - Workshops, 2006. 3rd Annual International Conferer](#)  
17-21 July 2006

Page(s): 1-8

Digital Object Identifier 10.1109/MOBIQW.2006.361782

**Summary:** In ubiquitous computing environments access control decisions have to be changes of the situation or state of an entity, in order to properly adjust to these chang need of manual interaction. A solution to this challenge is.....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

#### 25. Role-based Concurrency Control in a Subject- and Purpose-Oriented (SPO) View

Enokido, Tomoya; Barolli, Valbona; Takizawa, Makoto

[Advanced Information Networking and Applications, 2007. AINA '07. 21st International](#)  
21-23 May 2007

Page(s): 171-178

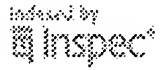
Digital Object Identifier 10.1109/AINA.2007.124

**Summary:** In information systems, processes have to be scheduled to share a limited resource objects like memory and CPU with other processes. In database systems, co requests from multiple transactions have to be serialized. There ar.....

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sequence or order or ordered or cascade or cascaded and access or entry and secure or security or authoriz

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1 [A taxonomy for secure object-oriented databases](#)

Martin S. Olivier, Sebastiaan H. von Solms

March 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(3.05 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [referen](#)

This paper proposes a taxonomy for secure object-oriented databases in order to clarify the issi indicates some implications of the various choices one may make when designing such a datab relational databases. The object-oriented database model is more complex than the relational n databases are more complex than ...

**Keywords:** formal security models, information security, multilevel secure databases, object-o

2 [The relational model for database management: version 2](#)

E. F. Codd

January 1990 Book

**Publisher:** Addison-Wesley Longman Publishing Co., Inc.

Full text available: [pdf\(28.61 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [referen](#)

**From the Preface (See Front Matter for full Preface)**

An important adjunct to precision is a sound theoretical foundation. The relational model is solid logic and the theory of relations. This book, however, does not dwell on the theoretical foundati that I now perceive as important for database users, and therefore for DBMS vendors. My perce

3 [A model of OASIS role-based access control and its support for active security](#)

Jean Bacon, Ken Moody, Walt Yao

November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5

**Publisher:** ACM Press

Full text available: [pdf\(352.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [referen](#)


OASIS is a role-based access control architecture for achieving secure interoperation of service: to allow autonomous management domains to specify their own access control policies and to ii Services define roles and implement formally specified policy to control role activation and serv appropriate context, in order to activat ...

**Keywords:** Certificates, OASIS, RBAC, distributed systems, policy, role-based access control, s

4 Propagation of authorizations in distributed database systems

 Pierangela Samarati, Paul Ammann, Sushil Jajodia  
November 1994 **Proceedings of the 2nd ACM Conference on Computer and communication**

**Publisher:** ACM Press

Full text available:  [pdf\(1.40 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [referen](#)

We consider the propagation of authorizations in distributed database systems. If no constraint then the authorization states at different sites may evolve inconsistently. A standard solution is appear as if they had occurred in some serial order at a single site, perhaps via an atomic comr result in authorization changes ...

5 Cryptography and data security

Dorothy Elizabeth Robling Denning  
January 1982 Book

**Publisher:** Addison-Wesley Longman Publishing Co., Inc.

Full text available:  [pdf\(19.47 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [referen](#)

**From the Preface (See Front Matter for full Preface)**


Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prol have come to rely on these systems to process and store data, we have also come to wonder a

Data security is the science and study of methods of protecting data in computer and communi

6 A rule-based framework for role-based delegation and revocation

 Longhua Zhang, Gail-Joon Ahn, Bei-Tseng Chu  
August 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6

**Publisher:** ACM Press

Full text available:  [pdf\(1.05 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [referen](#)


Delegation is the process whereby an active entity in a distributed environment authorizes anot systems, a user often needs to act on another user's behalf with some subset of his/her rights. requirements with ad-hoc mechanisms by compromising existing disorganized policies or simply there is a strong need in the large, distrib ...

**Keywords:** Role, access control, delegation, revocation, rule-based

7 Access control with IBM Tivoli access manager

 Günter Karjoth  
May 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6

**Publisher:** ACM Press

Full text available:  [pdf\(367.07 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [referen](#)

Web presence has become a key consideration for the majority of companies and other organiz the Web is increasingly being regarded as an extension of the organization itself, directly integr takes place, security grows in importance. IBM Tivoli Access Manager offers a shared infrastruc technologies that have begun to emerge in the com ...


**Keywords:** Access control, WWW security, Web servers, authorization management

8 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies c**


**Publisher:** IBM Press

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [referen](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on pr understanding of the execution of the application. The visualization tool we use is Poet, an ever these diagrams are often very complex and do not provide the user with the desired overview c repeated occurrences of non-trivial commun ...

9 Access control: On the modeling and analysis of obligations

 Keith Irwin, Ting Yu, William H. Winsborough

October 2006 **Proceedings of the 13th ACM conference on Computer and communicatio**

**Publisher:** ACM Press

Full text available:  [pdf\(230.18 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [referen](#)

Traditional security policies largely focus on access control requirements, which specify who car control requirements, the availability of services in many applications often further imposes obl taken by a subject in the future as a condition of getting certain privileges at present. However, policies are concerning the security ...

**Keywords:** obligations, policy

10 Macintosh human interface guidelines

Apple Computer, Inc.

January 1992 Book

**Publisher:** Addison-Wesley Publishing Company

Full text available:  [pdf\(37.61 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [referen](#)

Macintosh Human Interface Guidelines describes the way to create products that optimize the ii explains the whys and hows of the Macintosh interface in general terms and specific details.


Macintosh Human Interface Guidelines helps you link the philosophy behind the Macintosh inter Examples from a wide range of Macintosh products show good human interface design, includin

11 Limitations of the Kerberos authentication system

 S. M. Bellovin, M. Merritt

October 1990 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 5


**Publisher:** ACM Press

Full text available:  [pdf\(1.12 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#),


The Kerberos authentication system, a part of MIT's Project Athena, has been adopted by other number of limitations and some weaknesses. Some are due to specifics of the MIT environment discuss a number of such problems, and present solutions to some of them. We also demonstra needed in some cases.

12 A calculus for access control in distributed systems

 Martín Abadi, Michael Burrows, Butler Lampson, Gordon Plotkin

September 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, v

**Publisher:** ACM Press

Full text available:  [pdf\(1.94 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [referen](#)

We study some of the concepts, protocols, and algorithms for access control in distributed syste principal may come to believe that another principal is making a request, either on his own or c

for access control lists and theories for deciding whether requests should be granted.

**Keywords:** cryptographic protocols, cryptography, modal logic

13 Approaches to fault-tolerant and transactional mobile agent execution---an algorithmic view

 Stefan Pleisch, André Schiper

September 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 3

**Publisher:** ACM Press


Full text available:  [pdf\(946.94 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Over the past years, mobile agent technology has attracted considerable attention, and a significant development in mobile agent technology, reliability mechanisms such as fault tolerance and transactional replication, have been proposed. This paper surveys the field of fault-tolerant and transactional mobile agent execution and thus at guiding the reader to existing approaches. It starts with a discussion of...


**Keywords:** ACID, Byzantine failures, agreement problem, asynchronous system, commit, crash replication, security, transaction

14 Query evaluation techniques for large databases

 Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

**Publisher:** ACM Press


Full text available:  [pdf\(9.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms and sequences will be required to provide acceptable performance. The advent of object-oriented databases. On the contrary, modern data models exacerbate the problem: In order to manipulate large set systems manipulate simple records, query-processing...


**Keywords:** complex query evaluation plans, dynamic query evaluation plans, extensible database operator model of parallelization, parallel algorithms, relational database systems, set-matching

15 Secure operating systems: Towards a VMM-based usage control framework for OS kernel

 Min Xu, Xuxian Jiang, Ravi Sandhu, Xinwen Zhang

June 2007 **Proceedings of the 12th ACM symposium on Access control models and techniques**

**Publisher:** ACM Press


Full text available:  [pdf\(485.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Protecting kernel integrity is one of the fundamental security objectives in building a trustworthy operating system. Various approaches and systems have been proposed and developed. However, access control models do not capture important security requirements such as continuous policy enforcement and mutable protection mechanisms in these systems reside in the ...


**Keywords:** UCON, VMM, access control, authorization, kernel integrity, operating system protection

16 UIO: a uniform I/O system interface for distributed systems

 David R. Cheriton

January 1987 **ACM Transactions on Computer Systems (TOCS)**, Volume 5 Issue 1

**Publisher:** ACM Press


Full text available:  [pdf\(3.20 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)


A uniform I/O interface allows programs to be written relatively independently of specific I/O system details.

available in a distributed environment. Ideally, the interface provides this uniform access without performance. However, a uniform interface does not arise from careful design of individual system paper, the UIO (unifio ...

17 Peer-to-peer infrastructure: Pastiche: making backup cheap and easy

 Landon P. Cox, Christopher D. Murray, Brian D. Noble  
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

**Publisher:** ACM Press

Full text available:  [pdf\(1.65 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Backup is cumbersome and expensive. Individual users almost never back up their data, and backup presents *Pastiche*, a simple and inexpensive backup system. *Pastiche* exploits excess disk capacity costs. Each node minimizes storage overhead by selecting peers that share a significant amount of data, and peers with high overhead ...

18 Use of nested certificates for efficient, dynamic, and trust preserving public key infrastructure

 Albert Levi, M. Ufuk Caglayan, Cetin K. Koc  
February 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7

**Publisher:** ACM Press

Full text available:  [pdf\(532.64 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)


Certification is a common mechanism for authentic public key distribution. In order to obtain a network of certificates, which is called public key infrastructure (PKI), and verify the certificates. Nested certification is a novel methodology for efficient certificate path verification. Basic idea is other certificates ...

**Keywords:** Digital certificates, key management, nested certificates, public key infrastructure

19 Distributed operating systems

 Andrew S. Tanenbaum, Robbert Van Renesse  
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4


**Publisher:** ACM Press

Full text available:  [pdf\(5.49 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Distributed operating systems have many aspects in common with centralized ones, but they also introduce new aspects. This paper introduces distributed operating systems, and especially to current university research about distributed operating systems and how it is distinguished from a computer network, various key design issues are examined in some detail ...

20 Access management for distributed systems: Role-based cascaded delegation

 Roberto Tamassia, Danfeng Yao, William H. Winsborough  
June 2004 **Proceedings of the ninth ACM symposium on Access control models and mechanisms**

**Publisher:** ACM Press

Full text available:  [pdf\(218.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)

We propose *role-based cascaded delegation*, a model for delegation of authority in decentralized systems. *Role-based cascaded delegation* combines the advantages of role-based trust management with those of cascaded delegation. Implementation of role-based cascaded delegation using Hierarchical Certificate-Based Encryption. A long role-based delegation chain is captured ...

**Keywords:** RBAC, access control, delegation, trust management

Set	Items	Description
S1	327854	(COMPUTER?(2N)SYSTEM? ? OR NETWORK? OR DISTRIBUT? OR ETHER-NET? OR INTERNET OR INTRANET? OR LAN OR LANS OR WAN OR WANS OR WLAN? ? OR VLAN? ? (7N) CONTROL? OR REGULAT? OR DIRECT? OR M-ANAG? OR ADMINISTRAT? OR SUSTAIN? OR ORDER??? OR MAINTAIN? OR SUPERVIS???)
S2	248932	(PROTECT? OR SECUR? OR GUARD? OR FORTIF? OR SHIELD? OR ENF-ORC?) (3N) (ACCESS? OR ENTRY OR ENTRIE? ? OR USE??? OR UTILI? OR USING)
S3	195926	(ORDER?())SET? ? OR SEQUEN? OR PATTERN? OR ORDER?) (5N) (LEVE-L? OR STEP? ? OR STAGE? OR TIER?? ? OR OPERATION? OR FUNCTION? OR COMMAND?)
S4	26666	S3(5N) (TIME? ? OR TIMING OR TEMPORAL? OR CLOCK? OR DURATIO-N? OR EVENT? OR SCHEDUL? OR OCCASION? OR DAY? ? OR HOUR? ? OR MINUTE? ? OR SECOND? ? OR PERIOD?)
S5	33021	S3:S4(5N) (SECOND? OR COUPLE OR 2ND OR 2 OR DUAL?? OR TWICE OR ANOTHER? OR TWO OR DIFFERENT OR PAIR OR MORE(2N)ONE OR ADD-ITIONAL)
S6	8606	S4:S5(5N) (PERFORM? OR EXECUT? OR IMPLEMENT? OR OPERATE? ? - OR OPERATING OR ENACT? OR HANDL? OR (CARRY? OR CARRIE? ?) ()OUT OR COMPLET? OR ENABL? OR ALLOW?)

S7 25 S6 AND S2 AND S1

File 350:Derwent WPIX 1963-2007/UD=200752

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File 347:JAPIO Dec 1976-2007/Mar(Updated 070809)

(c) 2007 JPO & JAPIO

7/69,K/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX>

(c) 2007 The Thomson Corporation. All rts. reserv.

0015035617 - Drawing available

WPI ACC NO: 2005-383609/200539

XPX Acc No: N2005-310943

**Trail/path protection function enhancement method in synchronous optical network, involves mapping content of bytes of section overhead into path overhead bytes at low/high order level, for handling protective resources**

Patent Assignee: ALCATEL (COGE)

Inventor: CAZZANIGA G; SESTITO V

**Patent Family** (3 patents, 33 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20050099941	A1	20050512	US 2004822667	A	20040413	200539 B
EP 1531566	A1	20050518	EP 2003292866	A	20031112	200539 E
CN 1617476	A	20050518	CN 200410042594	A	20040525	200558 E

Priority Applications (no., kind, date): EP 2003292866 A 20031112

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20050099941	A1	EN	16	7	
EP 1531566	A1	EN			

Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI  
FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

#### Alerting Abstract US A1

NOVELTY - The content of bytes of section overhead are mapped in a linear multiplex section protection (MSP) N:1 trail protection function by protocol exchange, into path overhead (POH) bytes at low order and/or high order level, so as to allow handling of multiple protective resources shared among different working resources in both end-to-end handling and intermediate handling.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.network element;
- 2.trail/path protection function enhancement program; and
- 3.computer readable medium storing trail/path protection function enhancement program.

USE - For enhancing trail/path **protection** function in **synchronous** optical network (SONET) and synchronous digital hierarchy (SDH) network.

ADVANTAGE - Enhances the features of standardized protection scheme. Eliminates requirement of operating system application to the operator, thereby improving traffic **management** reliability in **network**.

DESCRIPTION OF DRAWINGS - The figure shows the schematic diagram of the network elements.

NEa, NEb network elements

**Title Terms/Index Terms/Additional Words:** TRAILING; PATH; PROTECT; FUNCTION  
; ENHANCE; METHOD; SYNCHRONOUS; OPTICAL; NETWORK; MAP; CONTENT; BYTE;  
SECTION; OVERHEAD; LOW; HIGH; ORDER; LEVEL; HANDLE; RESOURCE

#### Class Codes

International Classification (Main): G01R-031/08

International Classification (+ Attributes)



IPC + Level Value Position Status Version

H04J-0003/14 A I R 20060101

H04Q-0011/04 A N R 20060101

H04J-0003/14 C I R 20060101

H04Q-0011/04 C N R 20060101

US Classification, Issued: 370907000, 370228000

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): T01-F02C2; T01-N02B2C; T01-S03; W01-A06A1;

W01-A06C1; W01-A06E

**Alerting Abstract** ...USE - For enhancing trail/path **protection** function in **synchronous** optical network (SONET) and synchronous digital hierarchy (SDH) network...

...standardized protection scheme. Eliminates requirement of operating system application to the operator, thereby improving traffic **management** reliability in **network** .

#### Original Publication Data by Authority

#### Original Abstracts:

...protocol exchange into POH bytes of the path overhead in SDH or SONET, at Low **Order** and/or High **Order level** , so as to **allow** the **handling** of **more** than **one** protecting **resource** shared among different working resources, both in end-to-end handling and in intermediate handling...

...in SDH or SONET, at Low Order and/or High Order level, so as to **allow** the **handling** of **more** than **one** protecting resource shared among **different working** resources, both in **end - to -end handling** and in intermediate **handling**. >

#### Claims:

...protocol exchange into POH bytes of the path overhead in SDH or SONET, at Low **Order** and/or High **Order level** , so as to **allow** the **handling** of **more** than **one** protecting **resource** shared among different working resources, both in end-to-end handling and in intermediate handling...

...protocol exchange into POH bytes of the path overhead in SDH or SONET, at Low **Order** and/or High **Order level** , so as to **allow** the **handling** of more than one protecting resource shared among **different** working resources, both in end-to-end **handling** and in intermediate **handling**. >

7/69,K/5 (Item 5 from file: 350)  
(DIALOG(R)File 350:Derwent-WPIX)  
(c) 2007 The Thomson Corporation. All rts. reserv.

0014416207 - Drawing available  
WPI ACC NO: 2004-606295/200459  
Related WPI Acc No: 2004-634023; 2004-634025  
XRPX Acc No: N2004-479628

**Coprocessor e.g. graphics processing unit, task scheduling method, involves processing tasks by coprocessor in order indicated by run list, where coprocessor switches to next task in event of occurrence of any switching event**

Patent Assignee: GOSSALIA A B (GOSS-I); MICROSOFT CORP (MICT); PRONOVOST S (PRON-I)

Inventor: GOSALIA A B; GOSSALIA A B; LANGLEY B; LANGLEY B L; NAGASE H; PRONOVOST S

**Patent Family (9 patents, 35 countries)**

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
EP 1450258	A2	20040825	EP 20043544	A	20040217	200459	B
JP 2004252983	A	20040909	JP 200442173	A	20040218	200459	E
US 20040187122	A1	20040923	US 2003448399	P	20030218	200463	E
			US 2003448400	P	20030218		
			US 2003448402	P	20030218		
			US 2003474513	P	20030529		
			US 2004763778	A	20040122		
US 20040187135	A1	20040923	US 2003448399	P	20030218	200463	E
			US 2003448400	P	20030218		
			US 2003448402	P	20030218		
			US 2004777797	A	20040212		
US 20040231000	A1	20041118	US 2003448400	P	20030218	200477	E
			US 2004779272	A	20040213		
US 20050168472	A1	20050804	US 2003448399	P	20030218	200552	E
			US 2003748362	A	20031230		
			US 200589856	A	20050325		
CN 1609812	A	20050427	CN 200410039767	A	20040213	200558	E
IN 200400206	I1	20060331	IN 2004DE206	A	20040213	200625	NCE
IN 200400207	I1	20060303	IN 2004DE207	A	20040213	200639	E

Priority Applications (no., kind, date): US 200589856 A 20050325; US 2004779272 A 20040213; IN 2004DE206 A 20040213; US 2004777797 A 20040212; US 2003748362 A 20031230; US 2003474513 P 20030529; US 2003448399 P 20030218; US 2003448400 P 20030218; US 2003448402 P 20030218; US 2004763778 A 20040122

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 1450258	A2	EN	64	26	
Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
JP 2004252983	A	JA	145		
US 20040187122	A1	EN			Related to Provisional US 2003448399
					Related to Provisional US 2003448400
					Related to Provisional US 2003448402
					Related to Provisional US 2003474513
US 20040187135	A1	EN			Related to Provisional US 2003448399
					Related to Provisional US 2003448400
					Related to Provisional US 2003448402
US 20040231000	A1	EN			Related to Provisional US 2003448400
US 20050168472	A1	EN			Related to Provisional US 2003448399
					Continuation of application US

2003748362  
IN 200400206 I1 EN  
IN 200400207 I1 EN

#### Alerting Abstract EP A2

NOVELTY - The method involves generating a run list by a CPU, where the list comprises a list of tasks to be processed by a coprocessor. The run list is delivered to a scheduler process that prepares the tasks on the run list. The tasks are processed by the coprocessor in an order indicated by the run list. The coprocessor switches to a next task on the run list, when a switching event e.g. page fault, occurs while processing a task.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.a computer readable medium comprising computer executable instructions for carrying out a method for scheduling task for processing in a coprocessor
- 2.a modulated data signal carrying computer executable instructions for use in performing a method for scheduling task for processing in a coprocessor
- 3.a graphics processing unit for performing a method of scheduling tasks for processing in a coprocessor.

USE - Used in a computer system for scheduling tasks that are processed in a coprocessor e.g. a graphics processing unit that performs three-dimensional graphics calculation to support application e.g. games and computer aided design.

ADVANTAGE - The method provides the run list and allows the coprocessor to switch immediately from one task to the next, on the occurrence of a switching event, without waiting for CPU intervention, thus providing the CPU with more processing time for other functions and enhancing coprocessor efficiency and power.

DESCRIPTION OF DRAWINGS - The drawing shows a scheduling model.

**Title Terms/Index Terms/Additional Words:** GRAPHIC; PROCESS; UNIT; TASK; SCHEDULE; METHOD; ORDER; INDICATE; RUN; LIST; SWITCH; EVENT; OCCUR

#### Class Codes

International Classification (Main): G06F, G06F-009/38, G09G-005/14

(Additional/Secondary): G06T-001/20, G09G-005/393, G06F-009/46

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0009/46	A	I	R	20060101
G06F-0009/48	A	I	R	20060101
G06F-0009/50	A	I	R	20060101
H04N-0007/16	A	I	R	20060101
H04N-0007/173	A	I	R	20060101
G06F-0009/46	C	I	R	20060101
H04N-0007/16	C	I	R	20060101
H04N-0007/173	C	I	R	20060101

US Classification, Issued: 718100000, 718104000, 725132000, 725133000, 725140000, 725141000, 725152000, 345543000

File Segment: EngPI; EPI;

DWPI Class: T01; P85

Manual Codes (EPI/S-X): T01-C04D; T01-M02B; T01-S03

**Original Publication Data by Authority**

**Original Abstracts:**

...any one or more of (1) executing rendering commands sent to the coprocessor in a **different order** than they were **submitted** by **applications** ; ( 2 ) preempting the coprocessor during **scheduling** of non-interruptible hardware; (3) **allowing** user mode drivers to build work items using command buffers in a way that **does** not compromise **security** ; (4) preparing DMA **buffers** for execution while the coprocessor is busy executing a previously prepared DMA buffer; (5) resuming...

...in a computer environment having a main processing unit for executing an operating system and **an application** , a **system** memory, and a graphics processing unit having an aperture that maps, in a tiled manner, between a portion...

7/69,K/6 (Item 6 from file: 350)

~~DIALOG(R) File 350: Derwent WPIX~~

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0013999657 - Drawing available

WPI ACC NO: 2004-180864/200417

XRFX Acc No: N2004-143794

**Device for copy-protected distribution of electronic documents via public electronic data network e.g. the internet, with time-limited access to reconstruction server for reconstruction of encrypted document**

Patent Assignee: BRAINSHIELD TECHNOLOGIES INC (BRAI-N)

Inventor: WITTKOETTER E; WITTKOTTER E

**Patent Family** (4 patents, 100 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2004015952	A2	20040219	WO 2003EP8606	A	20030804	200417 B
DE 10335943	A1	20040603	DE 10335943	A	20030804	200436 E
AU 2003266962	A1	20040225	AU 2003266962	A	20030804	200456 E
US 20040181688	A1	20040916	US 2003635798	A	20030805	200461 E

Priority Applications (no., kind, date): DE 10236061 A 20020806

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
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WO 2004015952	A2	DE	32	2	
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National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States, Original: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

AU 2003266962	A1	EN			Based on OPI patent WO 2004015952
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#### Alerting Abstract WO A2

NOVELTY - The device has a number of subscriber terminals (10), each assigned to a user, configured for loading access of an electronic document via the electronic data network, a number of loading accesses carried out for associated electronic file sections, at least one loading access effected from a different subscriber terminal assigned to a different user, with electronic operational sequence instruction data provided by an instruction data server unit (24) required for performing the loading accesses. The received file sections are encrypted according to the operational sequence instruction data to prevent use of the electronic document before reconstruction via a reconstruction server unit (30), coupled for a limited time access to a decryption unit (16,18) within the subscriber terminal.

DESCRIPTION - An INDEPENDENT CLAIM for a method for copy-protected distribution of electronic documents via a public electronic data network is also included.

USE - The device is **used** for copy-protected distribution of electronic documents to subscriber terminals connected to a public electronic data network, e.g. the internet.

ADVANTAGE - Device protects distributed electronic documents from being read by unauthorized network users.

DESCRIPTION OF DRAWINGS - The figure shows a schematic block circuit diagram of a device for copy-protected distribution of electronic documents via electronic data network. (Drawing includes non-English language text).

10 Subscriber terminals

14 Publication unit

16,18 Decryption unit  
24 Instruction data server unit  
30 Reconstruction server unit

**Title Terms/Index Terms/Additional Words:** DEVICE; COPY; PROTECT; DISTRIBUTE  
; ELECTRONIC; DOCUMENT; PUBLIC; DATA; NETWORK; TIME; LIMIT; ACCESS;  
RECONSTRUCT; SERVE; ENCRYPTION

**Class Codes**

International Classification (Main): H04L-012/22, H04L-029/06, H04L-009/00  
(Additional/Secondary): H04L-009/32  
US Classification, Issued: 713201000

File Segment: EPI;  
DWPI Class: T01  
Manual Codes (EPI/S-X): T01-N01D2; T01-N02B1

**Alerting Abstract** ...USE - The device is **used** for copy- **protected** distribution of electronic documents to subscriber terminals connected to a public electronic data network, e...

**Original Publication Data by Authority**

**Original Abstracts:**

...of electronic documents of a predetermined document data structure in a publicly accessible electronic data **network**, particularly **the** Internet. Said device comprises: a number of subscriber terminal units (10), which are at least...

...to carry out the number of loading accesses, the subscriber terminal units obtain electronic operational **sequence** instruction **data**, which are **created** in a document-specific and/or subscriber-specific manner, from an instruction data unit (24), particularly...and configured for combining the encrypted form with a reconstruction file in order to generate **the** electronic document **for** display by the display unit in an unencrypted form that can be used by the...

**Claims:**

...and that represent an encrypted form of said electronic document, at least one of said **downloads** **being** **from** said second computer and at least one of said downloads being from said third computer...

7/69,K/7 (Item 7 from file: 350)

~~DIALOG(R)File-350:Derwent WPIX~~

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0013865161 - Drawing available

WPI ACC NO: 2004-043742/200404

Related WPI Acc No: 2005-423933; 2006-510379

XRPX Acc No: N2004-035314

**Hardware processor for Internet protocol based storage network appliance, provides remote direct memory access capability on IP and Ethernet network, using transmission control protocol, STCP and UDP protocol**

Patent Assignee: PANDYA A (PAND-I); PANDYA A A (PAND-I)

Inventor: PANDYA A; PANDYA A A

**Patent Family** (13 patents, 99 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 2003104943	A2	20031218	WO 2003US18386	A	20030610	200404	B
US 20040010545	A1	20040115	US 2002388407	P	20020611	200406	E
			US 2003458855	A	20030610		
US 20040010612	A1	20040115	US 2002388407	P	20020611	200406	E
			US 2003459674	A	20030610		
US 20040030757	A1	20040212	US 2002388407	P	20020611	200412	E
			US 2003459297	A	20030610		
US 20040030770	A1	20040212	US 2002388407	P	20020611	200412	E
			US 2003459350	A	20030610		
US 20040030806	A1	20040212	US 2002388407	P	20020611	200412	E
			US 2003459019	A	20030610		
US 20040037299	A1	20040226	US 2002388407	P	20020611	200416	E
			US 2003458844	A	20030610		
US 20040037319	A1	20040226	US 2002388407	P	20020611	200416	E
			US 2003459349	A	20030610		
AU 2003251492	A1	20031222	AU 2003251492	A	20030610	200445	E
US 20040165588	A1	20040826	US 2002388407	P	20020611	200457	E
			US 2003458844	A	20030610		
			US 2003458855	A	20030610		
			US 2003459019	A	20030610		
			US 2003459297	A	20030610		
			US 2003459349	A	20030610		
			US 2003459350	A	20030610		
			US 2003459674	A	20030610		
			WO 2003US18386	A	20030610		
			US 2004783890	A	20040220		
US 20040210320	A1	20041021	US 2002388407	P	20020611	200470	E
			US 2003458844	A	20030610		
			US 2003458855	A	20030610		
			US 2003459019	A	20030610		
			US 2003459297	A	20030610		
			US 2003459349	A	20030610		
			US 2003459350	A	20030610		
			US 2003459674	A	20030610		
			WO 2003US18386	A	20030610		
			US 2004783890	A	20040220		
			US 2004845345	A	20040512		
EP 1573454	A2	20050914	EP 2003757485	A	20030610	200560	E
			WO 2003US18386	A	20030610		
JP 2006516054	W	20060615	WO 2003US18386	A	20030610	200639	E
			JP 2004511951	A	20030610		

Priority Applications (no., kind, date): US 2004845345 A 20040512; US 2004783890 A 20040220; US 2003459674 A 20030610; US 2003459350 A

20030610; US 2003459349 A 20030610; US 2003459297 A 20030610; US  
 2003459019 A 20030610; US 2003458855 A 20030610; US 2003458844 A  
 20030610; WO 2003US18386 A 20030610; US 2002388407 P 20020611

# **Patent Details**

Number	Kind	Lan	Pg	Dwg	Filing	Notes
WO 2003104943	A2	EN	232	52		
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW						
Regional Designated States,Original: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW						
US 20040010545	A1	EN			Related to Provisional	US 2002388407
US 20040010612	A1	EN			Related to Provisional	US 2002388407
US 20040030757	A1	EN			Related to Provisional	US 2002388407
US 20040030770	A1	EN			Related to Provisional	US 2002388407
US 20040030806	A1	EN			Related to Provisional	US 2002388407
US 20040037299	A1	EN			Related to Provisional	US 2002388407
US 20040037319	A1	EN			Related to Provisional	US 2002388407
AU 2003251492	A1	EN			Based on OPI patent	WO 2003104943
US 20040165588	A1	EN			Related to Provisional	US 2002388407
					C-I-P of application	US 2003458844
					C-I-P of application	US 2003458855
					C-I-P of application	US 2003459019
					C-I-P of application	US 2003459297
					C-I-P of application	US 2003459349
					C-I-P of application	US 2003459350
					C-I-P of application	US 2003459674
					C-I-P of application	WO 2003US18386
US 20040210320	A1	EN			Related to Provisional	US 2002388407
					C-I-P of application	US 2003458844
					C-I-P of application	US 2003458855
					C-I-P of application	US 2003459019
					C-I-P of application	US 2003459297
					C-I-P of application	US 2003459349
					C-I-P of application	US 2003459350
					C-I-P of application	US 2003459674
					C-I-P of application	WO 2003US18386
					C-I-P of application	US 2004783890
EP 1573454	A2	EN			PCT Application	WO 2003US18386
					Based on OPI patent	WO 2003104943
Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR						
JP 2006516054	W	JA	64		PCT Application	WO 2003US18386
					Based on OPI patent	WO 2003104943

## **Alerting Abstract WO A2**

NOVELTY - The hardware processor provides remote **direct** memory access capability on **Internet** protocol (IP) **network** and **Ethernet network** using transmission **control** protocol (TCP), STCP and UDP protocol.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.switching system;
- 2.network appliance;
- 3.chip set;



4. hardware implemented ISCSI/IP storage controller ;
5. host processor;
6. host;
7. multi-port hardware processor;
8. integrated circuit hardware processor;
9. remote direct memory access operating method;
10. iSCSI stack;
11. TCP/IP stack;
12. IP processor;
13. multiprocessor system;
14. TCP/IP processor engine;
15. IP storage processor engine;
16. TCP/IP processor;
17. hardware implemented IP network application processor;
18. transport level RDMA function execution method;
19. peer system;
20. cluster of server;
21. CPU;
22. packet scheduler and sequencer;
23. classification resource;
24. Internet protocol packet scheduling and sequencing method;
25. hardware data processing classifier engine;
26. hardware classifier engine method;
27. storage flow and RDMA controller ;
28. commands scheduling and sequencing method;
29. RDMA method;
30. data processing apparatus;
31. session index;
32. session cache and memory complex;
33. session memory;
34. transport layer RDMA protocol execution method;

- 35.server;
- 36.hardware processor manufacturing method;
- 37.IP storage area network switching system line card;
- 38.gate controller ;
- 39.storage area network management appliance; and
40. network .

USE - Hardware processor for Internet protocol (IP) based storage network **appliance** (claimed) and switching system (claimed). Also used in **network management** , **bandwidth management** , **firewall** and security applications.

ADVANTAGE - Reduces TCP/IP protocol stack overhead sharply and enables high line rate storage and data transport solution based on IP. Provides features to **terminate TCP** traffic **carrying** the storage and data payload. Thereby eliminates the TCP/IP networking stack overhead. Allows packets to pass through from input to output with minimal latency. Enables high line rate storage or data traffic carried over IP.

DESCRIPTION OF DRAWINGS - The figure shows a block diagram of the IP network application processor.

**Title Terms/Index Terms/Additional Words:** HARDWARE; PROCESSOR; PROTOCOL; BASED; STORAGE; NETWORK; APPLIANCE; REMOTE; DIRECT; MEMORY; ACCESS; CAPABLE; IP; TRANSMISSION; CONTROL

#### Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G05B-0015/00	A	I		R	20060101
G06F-0013/10	A	I	F	B	20060101
G06F-0015/173	A	I		R	20060101
G06F-0015/177	A	I		R	20060101
H04L-0012/56	A	I		R	20060101
H04L-0029/06	A	I		R	20060101
H04L-0029/08	A	I		R	20060101
G05B-0015/00	C	I		R	20060101
G06F-0015/16	C	I		R	20060101
H04L-0012/56	C	I		R	20060101
H04L-0029/06	C	I		R	20060101
H04L-0029/08	C	I		R	20060101

US Classification, Issued: 709203000, 709230000, 709213000, 709217000, 709223000, 709220000, 709250000, 709212000, 370401000, 370395500, 370469000, 370395520, 370389000, 700001000

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): T01-F05E; T01-H01B1A; T01-N02A1; T01-N02A3C; W01-A03B; W01-A06E1; W01-A06G2; W01-A06G5E

**Hardware processor for Internet protocol based storage network appliance, provides remote direct memory access capability on IP and Ethernet network , using transmission control protocol, STCP and UDP protocol**

**Alerting Abstract ...NOVELTY** - The hardware processor provides remote

**direct** memory access capability on **Internet** protocol (IP) **network** and **Ethernet network** using transmission **control** protocol (TCP), STCP and UDP protocol....switching system; network appliance; chip set; **hardware** implemented ISCSI/IP storage **controller** ; host processor; host; multi-port hardware processor; integrated circuit hardware processor; remote direct memory access...

...classification resource; Internet protocol packet scheduling and sequencing method; hardware data processing classifier engine; hardware **classifier** engine method; storage flow and **RDMA controller** ; **commands scheduling** and **sequencing** method; RDMA method; data processing apparatus; session index; session cache and memory complex; session memory; transport layer RDMA protocol execution method; server; hardware processor manufacturing method; IP storage area **network** switching system line card; gate **controller** ; storage area **network management** appliance; and **network** .

...

...USE - Hardware processor for Internet protocol (IP) based storage network **appliance** (claimed) and switching system (claimed). Also used in **network management** , bandwidth **management** , **firewall** and security applications.

...

...enables high line rate storage and data transport solution based on IP. Provides features to **terminate TCP** traffic **carrying** the storage and data payload. Thereby eliminates the TCP/IP networking stack overhead. Allows packets

#### **Original Publication Data by Authority**

#### **Original Abstracts:**

...Une architecture fournit des possibilites de transport et de traitement de paquets de Protocole **Internet** ( **IP** ) depuis la couche 2 par la terminaison totale TCP/IP et l'inspection complete de...

#### **Claims:**

...comprising a hardware processor providing remote direct memory access capability for enabling data transfer using **TCP** over IP **networks** , said processor being programmable and sending and receiving data packets' also having identification information based...

...What is claimed is:<b>1</b>. A hardware processor providing remote **direct** memory access capability on an IP **network** and using a TCP, SCTP or UDP protocol, or a combination of **any** of the foregoing, over IP **networks** .

...

...packets;b. a session memory for storing IP session information;c. at least one memory **controller** for **controlling** memory accesses;d. at least one media interface for coupling to at least one network...a peer, memory regions reserved for RDMA;l. recording said memory regions reserved for RDMA in an RDMA database and **maintaining** said database;m. executing operations provided by RDMA capability;n. executing security management functions;o...

...I claim:<b>1</b>. A **security** system comprising a **network** ,said network comprising one or more networked systems of one or more types,a plurality...

...said hardware processor comprising a protocol processing engine to do transport layer protocol processing; or a programmable rule processing engine to analyze **network** traffic for rule matching or **taking** actions on matched rules or a combination thereof; or a security processing engine to do encryption, decryption, authorization or authentication or a combination thereof **using** standard or proprietary **security** protocols; or a packet classification engine to classify the network traffic; or a packet processing

7/69,K/8 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0013706078 - Drawing available  
WPI ACC NO: 2003-803229/200375  
XRPX Acc No: N2003-643888

**Computer-based maintenance resource system in industrial facility, has operation interface which receives operation data for scheduling and assigning resources to execute job plan**

Patent Assignee: FRISINA F (FRIS-I)

Inventor: FRISINA F

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20030187865	A1	20031002	US 2002368022	P	20020327	200375 B
			US 2002147344	A	20020515	

Priority Applications (no., kind, date): US 2002368022 P 20020327; US 2002147344 A 20020515

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030187865	A1	EN	42	28	Related to Provisional US 2002368022

#### Alerting Abstract US A1

NOVELTY - The system executes a job planning software for producing job plan or work orders, based on the information supplied by a user. An operation interface receives operation data related to generated job plan or work order, for scheduling and assigning resources to execute job plan or protection request.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.job plan preparation method;
- 2.computer generated work order approved method.

USE - For maintaining resources in industrial or commercial facility using computer.

ADVANTAGE - The operation input and requirement are fully integrated with maintenance resource allocation and planning requirements by using operation interface, hence work orders are issued only after achieving necessary approvals and operation input.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the computer-based maintenance resource system.

- 1 computer
- 4 standard database
- 5 work order database
- 6 integration software component
- 8 operation requirement database

**Title Terms/Index Terms/Additional Words:** COMPUTER; BASED; MAINTAIN; RESOURCE; SYSTEM; INDUSTRIAL; FACILITY; OPERATE; INTERFACE; RECEIVE; DATA ; SCHEDULE; ASSIGN; EXECUTE; JOB; PLAN

#### Class Codes

International Classification (Main): G06F-007/00  
US Classification, Issued: 707102000

File Segment: EPI;  
DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05A2B; T01-J05B4P; T01-N01A2

**Original Publication Data by Authority**

**Original Abstracts:**

A computer based maintenance resource **management system** has an **operations** software component with access to historical operations requirements such that job plans for the current...

**Claims:**

...program, and means for integrating the operations data into the job plan and/or work **order** for use in **scheduling** and assigning resources to **execute** the job plan and/or **protection request**.>

7/69,K/9 (Item 9 from file: 350)

~~DIALOG(R) File 350: Derwent WPIX~~

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0013565781 - Drawing available

WPI ACC NO: 2003-660043/200362

Related WPI Acc No: 2003-660044; 2007-024009

XRPX Acc No: N2003-526333

**Data network management and service provider using command line interface framework, transmits command sequences to corresponding managed data network entity, for execution of command line interface actions in entity**

Patent Assignee: ALCATEL CANADA INC (COGE); CHAN D W (CHAN-I); KATZ F (KATZ-I); LANDRY K E D (LAND-I); MURRAY C (MURR-I); NGO C N (NGOC-I); ZABIHI A (ZABI-I)

Inventor: CHAN D W; KATZ F; LANDRY K E D; MURRAY C; MURRAY C W; NGO C N; ZABIHI A

**Patent Family** (7 patents, 32 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20030115304	A1	20030619	US 2002115900	A	20020405	200362 B
CA 2365436	A1	20030619	CA 2365436	A	20011219	200362 E
EP 1322066	A2	20030625	EP 2002293097	A	20021213	200362 E
US 7113989	B2	20060926	US 2002115900	A	20020405	200663 E
EP 1322066	B1	20061220	EP 2002293097	A	20021213	200702 E
DE 60216885	E	20070201	DE 60216885	A	20021213	200722 E
			EP 2002293097	A	20021213	
DE 60216885	T2	20070705	DE 60216885	A	20021213	200744 E
			EP 2002293097	A	20021213	

Priority Applications (no., kind, date): CA 2365436 A 20011219; US 2002115900 A 20020405

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030115304	A1	EN	13	7	
CA 2365436	A1	EN			
EP 1322066	A2	EN			

Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

EP 1322066 B1 EN

Regional Designated States, Original: DE ES FR GB IT

DE 60216885 E DE Application EP 2002293097  
Based on OPI patent EP 1322066

DE 60216885 T2 DE Application EP 2002293097  
Based on OPI patent EP 1322066

#### Alerting Abstract US A1

NOVELTY - A command line interface (CLI) processor (520) processes the CLI dictionary entries holding vocabulary and grammar specifications of commands used in interacting with at least one **managed data network** entity (510), on receiving request for CLI actions to be performed from a managed object server (MOS) (200). A communication module (540) transmits each CLI command sequence to corresponding network entity, for execution.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.method of interacting with managed data network entity; and
- 2.method of providing dictionary of CLI commands.

USE - For **managing data networks** such as wireless local area **network**

(LAN) comprising data switching equipments, routers, bridge, access nodes providing multiplexing function, remote access servers (RAS), distribution nodes providing demultiplexing function, customer premise equipment (CPE) and for controlling software applications such as inventory reporting, configuration **management**, statistics gathering, performance reporting, **fault management**, **network surveillance**, **service provisioning**, **billing and accounting and security enforcement using command line interface framework**.

ADVANTAGE - Provides automatic entry of CLI command in dictionary and support for multi-vendor equipment by using multiple CLI command vocabularies and dictionaries. Reduces data **network entity management costs and time and improves development and maintenance of the network management** and service provisioning solution.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the data **network management** and service provisioning command line interface framework.

200 managed object server  
510 **managed data network entity**  
520 CLI processor  
540 communication module

**Title Terms/Index Terms/Additional Words:** DATA; NETWORK; MANAGEMENT; SERVICE; COMMAND; LINE; INTERFACE; FRAMEWORK; TRANSMIT; SEQUENCE; CORRESPOND; ENTITY; EXECUTE; ACTION

#### **Class Codes**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0015/173	A	I	F	B	20060101
H04L-0012/24	A	I		R	20060101
H04L-0012/24	A	I	F	B	20060101
H04L-0012/24	A	I	F		20060101
G06F-0015/16	C	I	F	B	20060101
H04L-0012/24	C	I		R	20060101
H04L-0012/24	C	I	F	B	20060101
H04L-0012/24	C	I			20060101
H04L-0012/24	C	I		B	20060101

US Classification, Issued: 709223000, 709222000, 709224000, 709220000, 709223000, 370241000, 370254000, 707100000

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): T01-F05B; T01-N02A2; W01-A06B5A; W01-A06E

**Data network management and service provider using command line interface framework, transmits command sequences to corresponding managed data network entity, for execution of command line interface actions in entity**

**Alerting Abstract** ...entries holding vocabulary and grammar specifications of commands used in interacting with at least one **managed data network entity** (510), on receiving request for CLI actions to be performed from a managed object...  
...method of interacting with **managed data network entity**; and method of providing dictionary of CLI commands...

...USE - For **managing data networks** such as wireless local area **network** (LAN) comprising data switching equipments, routers, bridge, access nodes providing multiplexing function, remote access servers...



...function, customer premise equipment (CPE) and for controlling software applications such as inventory reporting, configuration **management**, statistics gathering, performance reporting, fault **management**, **network** surveillance, service provisioning, billing and accounting and **security enforcement** using command line interface framework...

...support for multi-vendor equipment by using multiple CLI command vocabularies and dictionaries. Reduces data **network** entity **management** costs and time and improves development and maintenance of the **network management** and service provisioning solution...

...DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the data **network management** and service provisioning command line interface framework...

...510 **managed data network** entity...

#### Original Publication Data by Authority

#### Original Abstracts:

A method of interacting with a **managed data network** entity is provided. The method includes a sequence of steps. A change in the operational state of the **managed data network** entity is detected. A CLI dictionary entry is retrieved from a CLI dictionary associated with...

...Based on the retrieved CLI dictionary entry, CLI commands are extracted therefrom to configure the **managed data network** entity to reflect the detected change in the operational state. A CLI command sequence is...

...the extracted CLI commands. Each CLI command in the command sequence is sent to the **managed data network** entity for execution. CLI command responses are monitored. Based on a successful execution of CLI...

...commands in the CLI command sequence are sent for execution. The solution provides automated configuration **management** of data **network** entities from different vendors when SNMP is not a viable option. The automation eliminates manual CLI command entry in providing **network management** and service provisioning solutions, provides support for multi-vendor equipment by processing multiple CLI command vocabulary and grammar specifications in the CLI command dictionary. The solution reduces data **network** entity **management** costs, downtime, and training time for analysts. The advantages are derived from the ability to...

...data network entities with human readable code greatly improving the development and maintenance of the **network management** and service provisioning solution...

...A method of interacting with a **managed data network** entity is provided. The method includes a sequence of steps. A change in the operational state of the **managed data network** entity is detected. A CLI dictionary entry is retrieved from a CLI dictionary associated with...

...Based on the retrieved CLI dictionary entry, CLI commands are extracted therefrom to configure the **managed data network** entity to reflect the detected change in the operational state. A CLI command sequence is...

...the extracted CLI commands. Each CLI command in the command sequence is sent to the **managed data network** entity for execution. CLI command responses are monitored. Based on a successful execution of CLI...  
...commands in the CLI command sequence are sent for execution. The

solution provides automated configuration **management** of data **network** entities from different vendors when SNMP is not a viable option. The automation eliminates manual CLI command entry in providing **network management** and service provisioning solutions, provides support for multi-vendor equipment by processing multiple CLI command vocabulary and grammar specifications in the CLI command dictionary. The solution reduces data **network** entity **management** costs, downtime, and training time for analysts. The advantages are derived from the ability to...

...data network entities with human readable code greatly improving the development and maintenance of the **network management** and service provisioning solution...

...A method of interacting with a **managed** data **network** entity is provided. The method includes a sequence of steps. A change in the operational state of the **managed** data **network** entity is detected. A CLI dictionary entry is retrieved from a CLI dictionary associated with...

...Based on the retrieved CLI dictionary entry, CLI commands are extracted therefrom to configure the **managed** data **network** entity to reflect the detected change in the operational state. A CLI command sequence is...  
...the extracted CLI commands. Each CLI command in the command sequence is sent to the **managed** data **network** entity for execution. CLI command responses are monitored. Based on a successful execution of CLI...

...commands in the CLI command sequence are sent for execution. The solution provides automated configuration **management** of data **network** entities from different vendors when SNMP is not a viable option. The automation eliminates manual CLI command entry in providing **network management** and service provisioning solutions, provides support for multi-vendor equipment by processing multiple CLI command vocabulary and grammar specifications in the CLI command dictionary. The solution reduces data **network** entity **management** costs, downtime, and training time for analysts. The advantages are derived from the ability to...

...data network entities with human readable code greatly improving the development and maintenance of the **network management** and service provisioning solution.

**Claims:**

**Network management** and service provisioning Command Line Interface (CLI) framework, comprising: **a.** a processor responsive to...

...holding vocabulary and grammar specifications of a plurality of commands used in interacting with at **least** one **managed** data network entity; and **b.** a communications module sending in sequence for execution and...

...of commands generated in response to the notification as specified in the plurality of dictionary **entries** **wherein** a network management and service provisioning solution is provided making abstraction of the **at least one** managed data network entity...

...A Command Line Interface (CLI) **framework** for a network manager (NM) that manages a plurality of managed entities **of** a communication network, comprising: a CLI dictionary (530) holding vocabulary and grammar specifications for all...

...sequence of commands required to configure a managed entity that said managed object represents in **response** to said **event** and handling **execution** of said sequence of commands at said managed entity; and a communications module (540) for transmitting said sequence of commands to

said managed entity for execution, and interpreting results **received** from said managed **entity** , **wherein** a network management and service provisioning solution is provided making abstraction of the type of...

...I/we **claim** : **<b>1</b>** . A network management and service provisioning Command Line Interface (CLI) framework, comprising: a. a processor...

...entries holding vocabulary and grammar specifications of a plurality of commands used in interacting with **at least one** managed data network entity; and c. a communications module sending in sequence for execution and...

...of commands generated in response to the notification as specified in the plurality of dictionary **entries wherein** a network management and service provisioning solution is provided making abstraction of the **at least one** managed data network entity...

...We claim:1. A Command Line Interface (CLI) framework **component of** a Network Management System ( **NMS** ), the NMS managing a plurality **of** field **installed** managed communications network entities **of** a communications network, **each** field **installed** managed communications network entity being represented and modeled by an associated managed object instance stored...

...database associated with the NMS, the CLI framework component comprising: a. a CLI dictionary codifying **a plurality of** managed communications network entity-specific **CLI** commands and maintaining at least one **mapping** between **the** managed communications network entity-specific CLI commands **and** a corresponding managed object type;b. a generic processor executing coded logic to: i. detect...

...responsive to the detected event selectively generate a sequence of CLI commands required to configure **the** field **installed** managed communications network entity **associated** with said managed object instance by consulting the CLI dictionary;iii. handle execution of said sequence of CLI commands at **said** field **installed** managed communications network entity, including interpreting CLI command execution results received from **said** field **installed** managed communications network entity; andiv. generating an error report based on an unsuccessful execution...

...the execution results; andc. a communications module transmitting said sequence of CLI commands to **said** field **installed** managed communications network entity to be executed thereon, and conveying the execution results received from **said** field **installed** managed communications network entity to the generic **processor** , **wherein** a network management and service provisioning solution is provide **making** abstraction **of** managed communications network entity types.

7/69,K/24 (Item 24 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
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0008061777 - Drawing available  
WPI ACC NO: 1997-157344/199715  
XRPX Acc No: N1997-129878

**Access control method for resources in distributed systems - involves obtaining object references that include unforgable numbers and supplying these references to server objects**

Patent Assignee: SUN MICROSYSTEMS INC (SUNM)

Inventor: NESSETT D M; TOCK T D

**Patent Family** (8 patents, 8 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 762289	A2	19970312	EP 1996306020	A	19960816	199715 B
JP 9251425	A	19970922	JP 1996234642	A	19960819	199748 E
TW 314609	A	19970901	TW 1996112101	A	19961003	199803 E
KR 1997012183	A	19970329	KR 199634970	A	19960819	199815 E
US 5742759	A	19980421	US 1995516671	A	19950818	199823 E
CN 1149797	A	19970514	CN 1996113317	A	19960817	200123 E
EP 762289	B1	20040721	EP 1996306020	A	19960816	200449 E
DE 69632938	E	20040826	DE 69632938	A	19960816	200456 E
			EP 1996306020	A	19960816	

Priority Applications (no., kind, date): EP 1996306020 A 19960816; US 1995516671 A 19950818

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 762289	A2	EN	13	3	
Regional Designated States, Original: DE FR GB IT					
JP 9251425	A	JA	14		
TW 314609	A	ZH			
US 5742759	A	EN	14		
EP 762289	B1	EN			
Regional Designated States, Original: DE FR GB IT					
DE 69632938	E	DE			
				Application	EP 1996306020
				Based on OPI patent	EP 762289

#### Alerting Abstract EP A2

The access control method involves a user operating at a display device (107) and establishes a authenticated link to the computer (101). The computer or the system has a client object (117) and a number of server objects (119,121). When the user logs on the client object obtains details of the associated membership group (123).

The client object can communicate with the server objects to identify objects that will be required. The server objects return a reference that includes an unforgable number. When the user makes a print request, it passes the object reference. The print server uses these to obtain approved access to other servers.

**ADVANTAGE** - Provides simple and efficient "delegation" handling of user access rights.

**Title Terms/Index Terms/Additional Words:** ACCESS; CONTROL; METHOD; RESOURCE ; DISTRIBUTE; SYSTEM; OBTAIN; OBJECT; REFERENCE; NUMBER; SUPPLY; SERVE

#### Class Codes

International Classification (Main): G06F-001/00, G06F-012/00, G06F-012/14, G06F-015/00, H04L-009/00

(Additional/Secondary): G06F-013/00, G06F-017/21, G06F-009/46, G09C-001/00

, H04L-009/32  
US Classification, Issued: 395187010, 395800280, 395800300, 395200330,  
395200490, 395200550, 395200590, 711163000

File Segment: EngPI; EPI;  
DWPI Class: T01; P85  
Manual Codes (EPI/S-X): T01-F05G5; T01-H01C2; T01-H07C5A; T01-J05B4A  
**Access control method for resources in distributed systems...**

**Original Titles:**

...Method and system for **securely controlling access** to system resources in a **distributed system...**

...Method and system for **securely controlling access** to system resources in a **distributed system...**

...METHOD AND SYSTEM FOR **CONTROLLING SECURITY OF ACCESS TO SYSTEM RESOURCE IN DISTRIBUTED SYSTEM...**

...Method and system for facilitating access **control** to system resources in a **distributed computer system .**

**Original Publication Data by Authority**

**Original Abstracts:**

Embodiments of the present invention provide an improve method and system for **securely controlling access to resources in a distributed computer system .** One **embodiment of the present invention** stores and binds a group identification to a target object and then uses...

...Embodiments of the present invention provide an improved method and system for **securely controlling access to resources in a distributed computer system .** One **embodiment of the present invention** stores and **binds a group** identification to a target object and then uses membership checking to determine whether a client...

...the present invention avoids performing costly cryptographic operations in order to verify access rights of **requesting objects, as was common** in some prior art systems. A **second embodiment** of the present invention stores and binds a group identification to a target object...

**Claims:**

1. A method executed in a **computer system for controlling access to system resources in a distributed computer system , the method** comprising the steps of: sending a request from a client object to a spreadsheet server...

...A method executed in a **computer system (101) for controlling access to system resources in a distributed computer system** comprising:</br> sending a request (201) from a client object (117) to a spreadsheet server object to bind a group identifier to a spreadsheet object;</br> under **control** of the spreadsheet server object;</br> obtaining a **spreadsheet object (205);</br> storing the group identifier with the spreadsheet object ( 207 );</br> generating an unforgeable checksum (209);</br> storing the unforgeable checksum with the spreadsheet object (209);</br> sending the...A method executed in a **computer system for facilitating access control to system resource in a distributed computer system , the distributed computer system** including a first server object, a target object, a client object and a second server...**

...of the objects belonging to one or more specified groups of objects residing in the **computer system**, the method comprising the steps of:under **control** of the first server object,storing a group identifier associated with the target object in...

...group of object in the computer system with access privileges to the target object;under **control** of the second server object,sending **an access request** to the **first server object** requesting access to **the target object**, the **access request including** a second server principal identifier which identifies a principal operating the second server object;under...

...target object, the target object reference indicating a location of the target object in the **computer system**;under **control** of the client object,locating a second server object which operates on behalf of a

7/69,K/21 (Item 21 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0008978289 - Drawing available  
WPI ACC NO: 1998-532222/199845  
Related WPI Acc No: 1998-532211; 1998-532223; 1998-532433; 1999-024004;  
2002-470358

XRPX Acc No: N1998-415231

**Dynamic client registry for distribution of information over network - in which information from client entities on different networks is organized for selective sharing**

Patent Assignee: BURNS T A (BURN-I); BUTMAN R A (BUTM-I); DOUGHERTY J C (DOUG-I); KMIEC M D (KMIE-I); MALONE T J (MALO-I); PFN INC (PFNP-N); RAMACHANDRAN R (RAMA-I)

Inventor: BURNS T A; BUTMAN R A; DOUGHERTY J C; KMIEC M D; MALONE T J; RAMACHANDRAN R

**Patent Family** (5 patents, 80 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1998043184	A1	19981001	WO 1998US5731	A	19980324	199845 B
AU 199867701	A	19981020	AU 199867701	A	19980324	199909 E
US 6026430	A	20000215	US 1997828833	A	19970324	200016 E
EP 1019850	A1	20000719	EP 1998913067	A	19980324	200036 E
			WO 1998US5731	A	19980324	
JP 2002515156	W	20020521	JP 1998545903	A	19980324	200236 E
			WO 1998US5731	A	19980324	

Priority Applications (no., kind, date): US 1997828833 A 19970324

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1998043184	A1	EN	132	47	
National Designated States,Original: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW					
Regional Designated States,Original: AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
AU 199867701	A	EN			Based on OPI patent WO 1998043184
EP 1019850	A1	EN			PCT Application WO 1998US5731 Based on OPI patent WO 1998043184
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
JP 2002515156	W	JA	128		PCT Application WO 1998US5731 Based on OPI patent WO 1998043184

#### Alerting Abstract WO A1

The registry is used to organise information from client entities on different networks for selective sharing, and includes a computer for storing a dynamic client registry and resource locators containing function names.

A web server causes the computer to respond to the resource locators by loading the function name indicated. A database management program organises the dynamic client registry.

USE - Providing **control** over **distribution**, redistribution, **access security**, filtering, organizing and display of information across disparate networks.

ADVANTAGE - Enables selective transmission of valuable information in manner which allows for control or replication and publication of information.

**Title Terms/Index Terms/Additional Words:** DYNAMIC; CLIENT; REGISTER;  
DISTRIBUTE; INFORMATION; NETWORK; ENTITY; ORGANISE; SELECT; SHARE

**Class Codes**

International Classification (Main): G06F-015/00, G06F-015/16, G06F-017/30  
(Additional/Secondary): G06F-012/00, G06F-012/14, G06F-013/00  
US Classification, Issued: 709203000, 709217000, 709225000, 709227000,  
709238000, 709239000, 709249000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-D01; T01-H07C5E; T01-J05B4M

**Alerting Abstract ...USE** - Providing **control** over **distribution**,  
**redistribution**, **access security**, filtering, organizing and display of  
information across disparate networks...

**Original Publication Data by Authority**

**Original Abstracts:**

...to resource locators directed to it and to direct the database  
management program in organizing **the** dynamic client registry; several  
secondary computers **networked** with the first, each having a disk for  
storing a dynamic group registry and resource...

...resource locators directed to it and to direct the database management  
program in organizing the **dynamic** client registry; several secondary  
computers **networked** with the first, each having a disk for storing a  
dynamic group registry and resource...

...locators directed to it and to direct the database management program in  
organizing the dynamic **client** registry; several **secondary** computers  
**networked** with the first, each having a disk for storing a dynamic group  
registry and resource...

**Claims:**

...for execution in the client side communications server in each secondary  
computer so that communications **between** the first computer and each  
**secondary** computer cause **the** selected predetermined **functions** to be  
**executed** dynamically in **order** to **store** and index information in the  
**dynamic** client registry **for** selective access **by** each **secondary**  
computer.



7/69,K/19 (Item 19 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0009798320 - Drawing available  
WPI ACC NO: 2000-087497/200007  
Related WPI Acc No: 1999-561717  
XRPX Acc No: N2000-068688

Security system for business use computer  
Patent Assignee: DMW WORLDWIDE INC (DMWW-N); HARTLEY B V (HART-I);  
INNERWALL INC (INNE-N); KNIGHT E (KNIG-I); MAVROS C (MAVR-I); REYNOLDS  
K (REYN-I); ZYMBALUK G (ZYMB-I)  
Inventor: HARTLEY B V; KNIGHT E; MAVROS C; REYNOLDS K; ZYMBALUK G

Patent Family (5 patents, 82 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1999066383	A2	19991223	WO 1999US13476	A	19990615	200007 B
AU 199945682	A	20000105	AU 199945682	A	19990615	200024 E
US 20020026591	A1	20020228	US 199891270	P	19980615	200220 E
			US 1999333547	A	19990615	
			US 2001834334	A	20010412	
US 6889168	B2	20050503	US 199891270	P	19980615	200531 E
			US 1999333547	A	19990615	
			US 2001834334	A	20010412	
US 20050171737	A1	20050804	US 199891270	P	19980615	200552 E
			US 1999333547	A	19990615	
			US 2001834334	A	20010412	
			US 2005100714	A	20050407	

Priority Applications (no., kind, date): US 2005100714 A 20050407; US  
2001834334 A 20010412; US 1999333547 A 19990615; US 199891270 P  
19980615

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1999066383	A2	EN	37	15	
National Designated States, Original: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW					
Regional Designated States, Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW					
AU 199945682	A	EN			Based on OPI patent WO 1999066383
US 20020026591	A1	EN			Related to Provisional US 199891270
					Continuation of application US
1999333547					
US 6889168	B2	EN			Related to Provisional US 199891270
					Continuation of application US
1999333547					
US 20050171737	A1	EN			Related to Provisional US 199891270
					Continuation of application US
1999333547					
					Continuation of application US
2001834334					
					Continuation of patent US 6889168

#### Alerting Abstract WO A2

NOVELTY - Security module of the system under direction from processor  
(12) accesses and analyzes selected portions of the computer comprising  
unix server (10) to identify vulnerabilities. Utility module under  
direction from processor performs various utility functions with regard to

computer, in response to identified vulnerabilities.

DESCRIPTION - Security information for performing analysis of computer is stored in security system memory (30). The security system is connected to the computer comprising unix server (10) via (18). The reporting module of the system provides status information to GUI with regard to operations of the system. The security module includes at least one of configuration mode which performs initial analysis of the **computer system** acquire configuration information, **directory** checking module analyzing **directories** and files in system memory (13) to determine if security initial files have been tampered, user **manager** module, integrity checking module, **network** checking module and a password checking module. The utility module is chosen from user manager module, file removal module, file marking module, and scheduling module. An INDEPENDENT CLAIM is also included for method of providing a security assessment for computer system.

USE - For business use computer.

ADVANTAGE - Enables manually marking certain critical files and analyzing the marked files to detect tampering when directory check module is activated. Enables scheduling automated performance of functions and providing reports to the system user in a number of different formats.

DESCRIPTION OF DRAWINGS - The figure shows block diagram of security system.

- 10 Unix server
- 12 Processor
- 13 System memory
- 18 Via
- 30 Security system memory

Title Terms/Index Terms/Additional Words: SECURE; SYSTEM; BUSINESS; COMPUTER

**Class Codes**

International Classification (Main): G06F, G06F-011/30, G06F-012/14, G06F-015/00

(Additional/Secondary): H04L-009/00

US Classification, Issued: 713201000, 709224000, 702186000, 702186000, 713201000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-H07C5A; T01-J12C

**Security system for business use computer**

**Alerting Abstract** ...security module includes at least one of configuration mode which performs initial analysis of the **computer system** acquire configuration information, **directory** checking module analyzing **directories** and files in system memory (13) to determine if security initial files have been tampered, user **manager** module, integrity checking module, **network** checking module and a password checking module. The utility module is chosen from user manager...

**Original Publication Data by Authority**

**Original Abstracts:**

...identify, notify, and possibly correct, vulnerabilities and discrepancies. The security system includes a number of **security** tools and **utilities** in order to **perform** these functions. The **security** system includes the capability to identify the system configuration and once this is done performs different processes to analyze the **computer system directories**, locate **vulnerabilities** in the files or

directories , check the network access , do analysis of the users or groups which have access to the computer system and check the permissions ...

...identify, notify, and possibly correct, vulnerabilities and discrepancies. The security system includes a number of security tools and utilities in order to perform these functions . The security system includes the capability to identify the system configuration and once this is done performs different processes to analyze the computer system directories , locate vulnerabilities in the files or directories , check the network access, do analysis of the users or groups which have access to the computer system and check the permissions which these parties have been granted, and analyze passwords of the...

...security analysis computer system to identify, notify, and possibly correct, vulnerabilities and discrepancies. The security system includes a number of security tools and utilities in order to perform these functions. The security system includes the capability to identify the system configuration and once this is done performs different processes to analyze the computer system directories , locate vulnerabilities in the files or directories , check the network access, do analysis of the users or groups which have access to the computer system and check the permissions which these parties have been granted, and analyze passwords of the...

...to identify, notify, and possibly correct, vulnerabilities and discrepancies. The security system includes a number of security tools and utilities in order to perform these functions. The security system includes the capability to identify the system configuration and once this is done performs different processes to analyze the computer system directories , locate vulnerabilities in the files or directories , check the network access, do analysis of the users or groups which have access to the computer system and check the permissions which these parties have been granted, and analyze passwords of the users. The utilities include...

...to permanently remove files from the computer system, mark particular files to be analyzed, as well as schedule the security tests to be performed at predetermined times...

...des vulnerabilites et des anomalies. Ce systeme de securite comporte un certain nombre d'outils de securite et d'utilitaires destines a executer ces fonctions. Il a la capacite d'identifier la configuration du systeme et, cela fait, d'effectuer differentes operations pour analyser les repertoires, localiser les vulnerabilites dans les fichiers ou les directoires, verifier l'accès réseau...

...permanence des fichiers du systeme, de marquer des fichiers particuliers a analyser et de planifier les essais de securite a executer a des moments predetermines.

**Claims:**

...said security system comprising:at least one security module which under direction from the processor accesses and analyzes selected portions of the computer apparatus to identify vulnerabilities;at least one utility module which under...

...performs various utility functions with regards to the computer apparatus in response to the identified vulnerabilities ; and a security system memory which contains security information for performing the analysis of the computer apparatus...

...<b>1</b>. A computer security system, comprising: a configuration/set-up module that operates under **direction** of a processor of a **computer system** and that identifies **security critical files** of the **computer system**; a **directory** checking module that operates under **direction** of the processor and that **identifies unauthorized** changes to the security critical files; and a **user manager** module that operates **under direction** of the processor and that identifies unauthorized **access** to the **security critical files**.

...

...said security system comprising: at least one security module which under direction from the processor **accesses** and analyzes selected **portions** of the computer apparatus to identify vulnerabilities; at least one utility module which under the direction from the processor, performs various **utility** functions with **regards** to the computer apparatus in response to the identified vulnerabilities; and a security system memory

7/69,K/18 (Item 18 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0010023825 - Drawing available  
WPI ACC NO: 2000-328317/200028  
XRPX Acc No: N2000-247139

**Computer system hardware resource sharing method for business application, involves selecting at least one system operating mode and operation interval**

Patent Assignee: SAVVY FRONTIERS PROPERTY TRUST (SAVV-N)

Inventor: WEBER H J

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 6052781	A	20000418	US 1997803636	A	19970221	200028 B

Priority Applications (no., kind, date): US 1997803636 A 19970221

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6052781	A	EN	36	26	

#### Alerting Abstract US A

NOVELTY - The computer system's hardware resources are configured to select at least one of primary and secondary system operating modes. At least one of two operation intervals is selected during an initial ROM-BIOS **controlled POST** sequence of **computer system**, preferably before BOOT of OS.

DESCRIPTION - A computational portion, a random access memory portion and an operator interface portion of the computer system's hardware resources are shared between user-1 and user-2. Hard disk drive (HDD0) (90-1) and HDD1 (90-2) are interlinked with the hardware resources. Operating system software of user-1, user-2 are respectively maintained on HDD0 and HDD1. The primary system operating mode enables the user-1 to access the HDD0 while denying functional access to HDD1. Secondary system operating mode enables user-2 to access HDD1 while denying functional access to HDD0. The operation interval includes the respective user and system operating mode. An INDEPENDENT CLAIM is also included for the computer system hardware resource sharing apparatus.

USE - For business and office application, for students for enabling at least two non-current users to exercise functionally separate operational access to hardware resources while maintaining substantially incorruptible OS and program software integrity for each user.

ADVANTAGE - The two hard disk drives are electrically disassociated and independently operable only by an intended user. Non-intended user cannot access the unique hard disk drive. Even massive errors such as disk reformat does not occur. OS on each HDD may be nearly identical or entirely different. When the user accesses the computer system, corresponding HDD is also accessed. Any other HDD is operationally set aside and **secured** against **access** through password **protection** during boot by unique removable media device or through hardware selection devices such as key switch or user ID data card.

DESCRIPTION OF DRAWINGS - The figure shows the arrangement of PC including operator selectable hard disk drive exclusion.

90-1 HDD0  
90-2 HDD1

**Title Terms/Index Terms/Additional Words:** COMPUTER; SYSTEM; HARDWARE; RESOURCE; SHARE; METHOD; BUSINESS; APPLY; SELECT; ONE; OPERATE; MODE;

## INTERVAL

### Class Codes

International Classification (Main): G06F-013/00

US Classification, Issued: 713200000, 713002000, 713100000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-F02C2; T01-F05B2; T01-H05A

**Alerting Abstract** ...modes. At least one of two operation intervals is selected during an initial ROM-BIOS **controlled** POST sequence of **computer system**, preferably before BOOT of OS....computer system, corresponding HDD is also accessed. Any other HDD is operationally set aside and **secured** against **access** through password **protection** during boot by unique removable media device or through hardware selection devices such as key...

### Original Publication Data by Authority

#### Claims:

...enables at least two non-concurrent users to exercise functionally separate operational access to the **computer system**'s **hardware** resources while **maintaining** substantially **incorruptible** operating system and program software integrity for each user, comprising steps of: sharing a common...

...at least a first hard disk drive and a second hard disk drive with the **computer system**'s hardware resources; **maintaining** the **first** user's operating system software and program files on the first hard disk drive; maintaining the second user's operating system software and program files on the second hard disk **drive**; configuring the **computer system**'s hardware resources to enable a selectable one of at least a first system operating...

...system operating mode, and a second interval of operation including the second user and the **second** system operating mode **during** an initial ROM-BIOS **controlled** POST **sequence** of the **computer system** and preferably prior to a BOOT of the operating **system**.>

7/69,K/13 (Item 13 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0013129049 - Drawing available  
WPI ACC NO: 2003-211125/200320  
XRPX Acc No: N2003-168269

**Stand-alone security system for controlling access to secured information and self-service functionality for sponsor organization for Web-based and IVR-based self-service functions**

Patent Assignee: BURCHARD W (BURC-I); EDWARDS B T (EDWA-I); HARRIS S A (HARR-I); HUMANA INC (HUMA-N); KEINSLEY B E (KEIN-I); LATIMER E W (LATI-I); LAWHEAD A L (LAWH-I); LIGHT E P (LIGH-I); ROSENBERG S (ROSE-I); SMITHSON M A (SMIT-I); STANLEY C (STAN-I); TOWNSEND D L (TOWN-I); WEBER L S (WEBE-I)

Inventor: BURCHARD W; EDWARDS B T; HARRIS S A; KEINSLEY B E; LATIMER E W; LAWHEAD A L; LIGHT E P; ROSENBERG S; SMITHSON M A; STANLEY C; TOWNSEND D L; WEBER L S

**Patent Family** (6 patents, 100 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2003017096	A1	20030227	WO 2002US25272	A	20020812	200320 B
US 20030154403	A1	20030814	US 2001311821	P	20010814	200355 E
			US 2002216664	A	20020812	
EP 1417574	A1	20040512	EP 2002768461	A	20020812	200431 E
			WO 2002US25272	A	20020812	
AU 2002331022	A1	20030303	AU 2002331022	A	20020812	200452 E
JP 2005500617	W	20050106	WO 2002US25272	A	20020812	200505 E
			JP 2003521939	A	20020812	
IN 200400289	P4	20051209	WO 2002US25779	A	20020814	200604 E
			IN 2004CN289	A	20040212	

Priority Applications (no., kind, date): US 2002216664 A 20020812; US 2001311821 P 20010814

**Patent Details**

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2003017096	A1	EN	176	30	

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Regional Designated States,Original: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

US 20030154403	A1	EN		Related to Provisional	US 2001311821
EP 1417574	A1	EN		PCT Application	WO 2002US25272

Based on OPI patent WO 2003017096

Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

AU 2002331022	A1	EN		Based on OPI patent	WO 2003017096
JP 2005500617	W	JA	280	PCT Application	WO 2002US25272

Based on OPI patent WO 2003017096

IN 200400289	P4	EN		PCT Application	WO 2002US25779
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**Alerting Abstract** WO A1

NOVELTY - Sponsor organizations e.g. healthcare companies, use the stand-alone security system for controlling access to secured information by clients that access the company's data and other resources

over a distributed information retrieval system e.g. WWW.

**DESCRIPTION** - The secured logon application is a stand-alone **security** system which controls **access** to **secured** information and self-service functionality for a sponsor organization via a secure, externally managed, dynamic menuing program that provides for controlled access to resources e.g. secured information and self-service functionality of the sponsor organization. It can be implemented using commercially available computer equipment and programming languages, and used for web-based and IVR-based self-service functions.

**USE** - Web-based **security** applications for providing controlled access to sponsor organisation's data and other resources.

**ADVANTAGE** - Secured logon application can have differences in configuration depending upon the sponsor organization, and can be integrated and blended into a web site between an unsecured section of the site and a secured section of the site.

**DESCRIPTION OF DRAWINGS** - The drawing shows the relationship between an entity, a user, what the user can do e.g. business functions, and what data the user can perform those functions on (access identifiers).

**Title Terms/Index Terms/Additional Words:** STAND; SECURE; SYSTEM; CONTROL; ACCESS; INFORMATION; SELF; SERVICE; FUNCTION; ORGANISE; WEB; BASED

#### **Class Codes**

International Classification (Main): G06F-011/30, G06F-015/00, G06F-009/445  
(Additional/Secondary): G06F-015/173, G06F-017/00, G06F-017/60,  
G06F-007/00, H04L-009/00

US Classification, Issued: 713201000, 709223000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J12C; T01-N01D1A; T01-N02B1B; T01-S01C

**Stand-alone security system for controlling access to secured information and self-service functionality for sponsor organization for Web-based and IVR-based self...**

#### **Original Titles:**

WEB-BASED SECURITY WITH CONTROLLED ACCESS TO DATA AND RESOURCES...

...WEB-BASED SECURITY WITH CONTROLLED ACCESS TO DATA AND RESOURCES...

...Web-based security with controlled access to data and resources...

...WEB-BASED SECURITY WITH CONTROLLED ACCESS TO DATA AND RESOURCES...

**Alerting Abstract ...NOVELTY** - Sponsor organizations e.g. healthcare companies, use the stand-alone **security** system for controlling **access** to **secured** information by clients that access the company's data and other resources over a distributed...

**DESCRIPTION** - The secured logon application is a stand-alone **security** system which controls **access** to **secured** information and self-service functionality for a sponsor organization via a secure, externally managed, dynamic...

... **USE** - Web-based **security** applications for providing controlled access to sponsor organisation's data and other resources

#### **Original Publication Data by Authority**

#### **Original Abstracts:**



A stand-alone security system controlling access to secured information and self-service functionality for a sponsor organization, usable for Web-based and IVR-based self-service functions, having five primary facets: (1) control of access to secured information (2) enabling access to users having indirect and direct relationships with the sponsor organization (3) distribution of security administration from a central information technology resource to users of the security system, (4) support for integration into different environments, and (5) support for system integrators. Key components of access control...

...A stand-alone security system controlling access to secured information and self-service functionality for a sponsor organization, usable for Web-based and IVR-based self-service functions, having five primary facets: (1) control of access to secured information and self-service functionality for a sponsor organization, (2) enabling access to users having indirect relationships to the sponsor organization and to users having a direct relationship with the sponsor organization, (3) distribution of security administration from a central information technology resource to various users of the security system, (4) support for integration into different kinds of environments, and (5) support for system integrators. Key components of access control include (1) association...

...who handles day-to-day security administration for the employer. Facet (3) enables multiple levels of distribution, including enabling one organization to delegate its rights to another organization...

...A stand-alone security system controlling access to secured information and self-service functionality for a sponsor organization, usable for Web-based and IVR-based self-service functions, having five primary facets: (1) control of access to secured information (2) enabling access to users having indirect and direct relationships with the sponsor organization (3) distribution of security administration from a central information technology resource to users of the security system, (4) support for integration into different environments, and (5) support for system integrators. Key components of access control include (1) association of a userID with one specific person, (2) identification of keys...

...un systeme RVI et presentant cinq facettes principales: (1) surveillance de l'acces aux informations securisees, (2) acces aux utilisateurs ayant un lien indirect et direct avec l'organisation de parrainage, (3) distribution de l'administration de securite a partir d'une ressource de technologie d'information centrale aux utilisateurs du systeme securise, (4) support dans le cadre de l'integration a differents environnements, (5) support aux integrateurs de systemes. Les composants cles de la surveillance de l'acces sont constitues de (1) l'association d'une...

#### Claims:

We claim: **1**. A stand-alone security system controlling access to secured information and self-service functionality for a sponsor organization, comprising: means for controlling access to secured information and self-service functionality for the sponsor organization; means for enabling access to users who have indirect relationships to the sponsor organization as well as to users who have a direct relationship with the sponsor organization; means for distributing security administration from a central information technology resource to various users of the security system; means for supporting integration into different kinds of environments; and means for supporting

system integrators who need to interface with and use information in the security system in order to execute their business functions.>

7/69,K/12 (Item 12 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0013158471 - Drawing available  
WPI ACC NO: 2003-241263/200324  
Related WPI Acc No: 2003-362270  
XRPX Acc No: N2003-192073

**Interfacing method for security processor used in online transactions over networks e.g. Internet, in which macro- security operations are used for communicating tasks and results between host and security processors**

Patent Assignee: CAVIUM NETWORKS (CAVI-N); CAVIUM NETWORKS INC (CAVI-N)  
Inventor: AHMED K E; CARLSON D A; HUSSAIN M R; KESSLER R E; SANZONE R A;  
VARGA M D

**Patent Family** (4 patents, 33 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 1282025	A2	20030205	EP 200216424	A	20020722	200324 B
JP 2003216591	A	20030731	JP 2002215500	A	20020724	200351 E
TW 576963	A	20040221	TW 2002116472	A	20020724	200455 E
US 6789147	B1	20040907	US 2001307643	P	20010724	200459 E
			US 200125512	A	20011219	

Priority Applications (no., kind, date): US 2001307643 P 20010724; US 200125512 A 20011219

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 1282025	A2	EN	22	10	
Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
JP 2003216591	A	JA	64		
TW 576963	A	ZH			
US 6789147	B1	EN			Related to Provisional US 2001307643

#### Alerting Abstract EP A2

NOVELTY - A processor includes execution units to process requests for security operations, and output results of the requests to output data structures associated with the requests within a remote memory based on pointers stored in the requests.

DESCRIPTION - The method involves communicating tasks and results between a host processor and a security coprocessor having a number of execution units. A host processor can transfer the type of tasks, in particular macro security operations, to the security processor. The security coprocessor having multiple execution units receives requests and provides results through a continuous flow mechanism. The received requests are treated as independent of each other, are **distributed** to available multiple **execution** units in- **order** , can be macro-security **operations** , can take **different** amounts of **time** to **complete** and can be **completed** /returned out-of-order.

INDEPENDENT CLAIMS are included for

- 1.a method executing on a host processor;
- 2.a processor including a number of execution units;
- 3.a system comprising a host processor coupled to a system bus;
- 4.a machine readable medium storing instructions for executing the

method.

**USE** - Processing **security** operations in online sales for business-to-business and **business** -to-customer over communications networks e.g. Internet.

**ADVANTAGE** - Macro- **security** operations can be **used** with different techniques for communicating **tasks** and results between a host processor and a security processor.

**DESCRIPTION OF DRAWINGS** - The drawing shows an exemplary establishment of a secure SSL 3.0 session according to an embodiment of the invention.

401 Client

403 Server

407,409,423,425 Security operations

**Title Terms/Index Terms/Additional Words:** INTERFACE; METHOD; SECURE; PROCESSOR; TRANSACTION; NETWORK; MACRO; OPERATE; COMMUNICATE; TASK; RESULT; HOST

#### **Class Codes**

International Classification (Main): G06F-001/00, G06F-015/16, G06F-009/00  
(Additional/Secondary): G06F-012/00, G06F-013/00, G06F-015/177,  
G06F-009/38

US Classification, Issued: 710200000, 713200000, 712034000

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): T01-D01; T01-M05; T01-N01A2A; T01-N02B1B; T01-S03;  
W01-A05A

**Interfacing method for security processor used in online transactions over networks e.g. Internet, in which macro- security operations are used for communicating tasks and results between host and security processors**

**Alerting Abstract** ...a continuous flow mechanism. The received requests are treated as independent of each other, are **distributed** to available multiple **execution** units in- **order** , can be macro-security operations , can take **different** amounts of **time** to **complete** and can be **completed** /returned out-of-order...

... **USE** - Processing **security** operations in online sales for business-to- **business** and **business** -to-customer over communications networks e.g. Internet...

...**ADVANTAGE** - Macro- **security** operations can be **used** with different techniques for communicating **tasks** and results between a host processor and a security processor

#### **Original Publication Data by Authority**

#### **Claims:**

...for security operations from a host memory, wherein the number of requests are in an **order** within the host **memory** ; **distributing** , by the request unit, the **number** of requests for the security operations to a number of execution units, wherein the distribution...

...for security operations from a host memory, wherein the number of requests are in an **order** within the host memory; **distributing** , by the request unit, the number of requests for the security operations to a number of execution **units** , wherein the **distribution** is based on **availability** of the number of execution units; processing the number of

requests for the security operations...

7/69,K/10 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0013416971 - Drawing available  
WPI ACC NO: 2003-507459/200348  
XRPX Acc No: N2003-403057

Computer system operated in security trading system providing reference market for processing orders has pre-match control unit for executing order against quote if order matches quote

Patent Assignee: DEUT BOERSE AG (DEBO-N)

Inventor: GOMBER P; MAURER K; ZICKWOLFF M

Patent Family (2 patents, 27 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 1321870	A1	20030625	EP 2001129858	A	20011214	200348 B
US 20030177086	A1	20030918	US 2002307506	A	20021202	200362 E

Priority Applications (no., kind, date): EP 2001129858 A 20011214

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 1321870	A1	EN	28	8	

Regional Designated States, Original: AL AT BE CH CY DE DK ES FI FR GB GR  
IE IT LI LT LU LV MC MK NL PT RO SE SI TR

#### Alerting Abstract EP A1

NOVELTY - A pre-match control unit (255) is used for determining whether an order matches a quote. The pre-match control unit may be arranged for executing the order against the quote if the order matches the quote or automatically forwarding the order to the reference market for execution if the order does not match the quote.

DESCRIPTION - INDEPENDENT CLAIMS are included for:

1.a method of operating a computer system for processing orders in a security trading system

USE - For processing orders in a security trading system providing a reference market, in which orders are matched with quotes for execution purposes.

ADVANTAGE - Provides such internalization functionality without the need to re-submit an order that could not be internalized, to the order book.

DESCRIPTION OF DRAWINGS - The drawing illustrates a system according to a preferred embodiment of the invention.

255 pre-match control unit

Title Terms/Index Terms/Additional Words: COMPUTER; SYSTEM; OPERATE; SECURE ; TRADE; REFERENCE; MARKET; PROCESS; ORDER; PRE; MATCH; CONTROL; UNIT; EXECUTE

#### Class Codes

International Classification (Main): G06F-017/60  
US Classification, Issued: 705037000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05A2F; T01-N01A2F

Alerting Abstract ...a method of operating a computer system for processing orders in a security trading system...

...USE - For processing orders in a **security** trading system providing a reference market, in which orders are matched with quotes for execution...

#### Original Publication Data by Authority

#### Original Abstracts:

The invention provides a method of operating a **computer system** for processing **orders** in a **security trading** system providing a reference market, and a corresponding computer system. A message that indicates a...

...The invention provides a method of operating a **computer system** for processing **orders** in a **security trading system** providing a reference market, and a corresponding **computer system**. A message that indicates a (private) quote is received. The quote includes quote parameters defining ...

...invention therefore provides an integrated internalization functionality in a security trading system leading to best **execution** of **orders**, to price- **time** priority consistency, order **book** consistency, full transparency and fairness.

#### Claims:

Computer system operated in a security trading system (260) providing a reference market, the **computer system** being arranged for processing **orders** and comprising: means for receiving a message indicating a quote, the quote including quote parameters implicitly defining...

...<b>1</b>. Computer system operated in a security trading system (<b>260</b>) providing a reference market, the **computer system** being arranged for processing **orders** and comprising: means for receiving a message indicating a quote, the quote including **quote parameters** implicitly defining a buy **limit order** and a sell limit order; a quote storage (<b>250</b>) for storing the quote parameters; means...

7/69,K/9 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0013565781 - Drawing available  
WPI ACC NO: 2003-660043/200362  
Related WPI Acc No: 2003-660044; 2007-024009  
XRPX Acc No: N2003-526333

**Data network management and service provider using command line interface framework, transmits command sequences to corresponding managed data network entity, for execution of command line interface actions in entity**

Patent Assignee: ALCATEL CANADA INC (COGE); CHAN D W (CHAN-I); KATZ F (KATZ-I); LANDRY K E D (LAND-I); MURRAY C (MURR-I); NGO C N (NGOC-I); ZABIHI A (ZABI-I)

Inventor: CHAN D W; KATZ F; LANDRY K E D; MURRAY C; MURRAY C W; NGO C N; ZABIHI A

**Patent Family** (7 patents, 32 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20030115304	A1	20030619	US 2002115900	A	20020405	200362 B
CA 2365436	A1	20030619	CA 2365436	A	20011219	200362 E
EP 1322066	A2	20030625	EP 2002293097	A	20021213	200362 E
US 7113989	B2	20060926	US 2002115900	A	20020405	200663 E
EP 1322066	B1	20061220	EP 2002293097	A	20021213	200702 E
DE 60216885	E	20070201	DE 60216885	A	20021213	200722 E
			EP 2002293097	A	20021213	
DE 60216885	T2	20070705	DE 60216885	A	20021213	200744 E
			EP 2002293097	A	20021213	

Priority Applications (no., kind, date): CA 2365436 A 20011219; US 2002115900 A 20020405

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030115304	A1	EN	13	7	
CA 2365436	A1	EN			
EP 1322066	A2	EN			
Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
EP 1322066	B1	EN			
Regional Designated States,Original: DE ES FR GB IT					
DE 60216885	E	DE			Application EP 2002293097 Based on OPI patent EP 1322066
DE 60216885	T2	DE			Application EP 2002293097 Based on OPI patent EP 1322066

#### Alerting Abstract US A1

NOVELTY - A command line interface (CLI) processor (520) processes the CLI dictionary entries holding vocabulary and grammar specifications of commands used in interacting with at least one **managed data network** entity (510), on receiving request for CLI actions to be performed from a managed object server (MOS) (200). A communication module (540) transmits each CLI command sequence to corresponding network entity, for execution.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.method of interacting with managed data network entity; and
- 2.method of providing dictionary of CLI commands.

USE - For **managing data networks** such as wireless local area network



(LAN) comprising data switching equipments, routers, bridge, access nodes providing multiplexing function, remote access servers (RAS), distribution nodes providing demultiplexing function, customer premise equipment (CPE) and for controlling software applications such as inventory reporting, configuration management, statistics gathering, performance reporting, fault management, network surveillance, service provisioning, billing and accounting and security enforcement using command line interface framework.

ADVANTAGE - Provides automatic entry of CLI command in dictionary and support for multi-vendor equipment by using multiple CLI command vocabularies and dictionaries. Reduces data network entity management costs and time and improves development and maintenance of the network management and service provisioning solution.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the data network management and service provisioning command line interface framework.

200 managed object server  
510 managed data network entity  
520 CLI processor  
540 communication module

Title Terms/Index Terms/Additional Words: DATA; NETWORK; MANAGEMENT; SERVICE; COMMAND; LINE; INTERFACE; FRAMEWORK; TRANSMIT; SEQUENCE; CORRESPOND; ENTITY; EXECUTE; ACTION

#### Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0015/173	A	I	F	B	20060101
H04L-0012/24	A	I		R	20060101
H04L-0012/24	A	I	F	B	20060101
H04L-0012/24	A	I	F		20060101
G06F-0015/16	C	I	F	B	20060101
H04L-0012/24	C	I		R	20060101
H04L-0012/24	C	I	F	B	20060101
H04L-0012/24	C	I			20060101
H04L-0012/24	C	I		B	20060101

US Classification, Issued: 709223000, 709222000, 709224000, 709220000, 709223000, 370241000, 370254000, 707100000

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): T01-F05B; T01-N02A2; W01-A06B5A; W01-A06E

Data network management and service provider using command line interface framework, transmits command sequences to corresponding managed data network entity, for execution of command line interface actions in entity

Alerting Abstract ...entries holding vocabulary and grammar specifications of commands used in interacting with at least one managed data network entity (510), on receiving request for CLI actions to be performed from a managed object...  
...method of interacting with managed data network entity; and method of providing dictionary of CLI commands...

...USE - For managing data networks such as wireless local area network (LAN) comprising data switching equipments, routers, bridge, access nodes providing multiplexing function, remote access servers...

...function, customer premise equipment (CPE) and for controlling software applications such as inventory reporting, configuration **management**, statistics gathering, performance reporting, fault **management**, **network** surveillance, service provisioning, billing and accounting and **security enforcement** using command line interface framework...

...support for multi-vendor equipment by using multiple CLI command vocabularies and dictionaries. Reduces data **network** entity **management** costs and time and improves development and maintenance of the **network management** and service provisioning solution...

...DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the data **network management** and service provisioning command line interface framework...

...510 **managed** data **network** entity...

#### Original Publication Data by Authority

#### Original Abstracts:

A method of interacting with a **managed** data **network** entity is provided. The method includes a sequence of steps. A change in the operational state of the **managed** data **network** entity is detected. A CLI dictionary entry is retrieved from a CLI dictionary associated with...

...Based on the retrieved CLI dictionary entry, CLI commands are extracted therefrom to configure the **managed** data **network** entity to reflect the detected change in the operational state. A CLI command sequence is...

...the extracted CLI commands. Each CLI command in the command sequence is sent to the **managed** data **network** entity for execution. CLI command responses are monitored. Based on a successful execution of CLI...

...commands in the CLI command sequence are sent for execution. The solution provides automated configuration **management** of data **network** entities from different vendors when SNMP is not a viable option. The automation eliminates manual CLI command entry in providing **network management** and service provisioning solutions, provides support for multi-vendor equipment by processing multiple CLI command vocabulary and grammar specifications in the CLI command dictionary. The solution reduces data **network** entity **management** costs, downtime, and training time for analysts. The advantages are derived from the ability to...

...data network entities with human readable code greatly improving the development and maintenance of the **network management** and service provisioning solution...

...A method of interacting with a **managed** data **network** entity is provided. The method includes a sequence of steps. A change in the operational state of the **managed** data **network** entity is detected. A CLI dictionary entry is retrieved from a CLI dictionary associated with...

...Based on the retrieved CLI dictionary entry, CLI commands are extracted therefrom to configure the **managed** data **network** entity to reflect the detected change in the operational state. A CLI command sequence is...

...the extracted CLI commands. Each CLI command in the command sequence is sent to the **managed** data **network** entity for execution. CLI command responses are monitored. Based on a successful execution of CLI...

...commands in the CLI command sequence are sent for execution. The

solution provides automated configuration **management** of data **network** entities from different vendors when SNMP is not a viable option. The automation eliminates manual CLI command entry in providing **network management** and service provisioning solutions, provides support for multi-vendor equipment by processing multiple CLI command vocabulary and grammar specifications in the CLI command dictionary. The solution reduces data **network** entity **management** costs, downtime, and training time for analysts. The advantages are derived from the ability to...

...data network entities with human readable code greatly improving the development and maintenance of the **network management** and service provisioning solution...

...A method of interacting with a **managed** data **network** entity is provided. The method includes a sequence of steps. A change in the operational state of the **managed** data **network** entity is detected. A CLI dictionary entry is retrieved from a CLI dictionary associated with...

...Based on the retrieved CLI dictionary entry, CLI commands are extracted therefrom to configure the **managed** data **network** entity to reflect the detected change in the operational state. A CLI command sequence is...  
...the extracted CLI commands. Each CLI command in the command sequence is sent to the **managed** data **network** entity for execution. CLI command responses are monitored. Based on a successful execution of CLI...

...commands in the CLI command sequence are sent for execution. The solution provides automated configuration **management** of data **network** entities from different vendors when SNMP is not a viable option. The automation eliminates manual CLI command entry in providing **network management** and service provisioning solutions, provides support for multi-vendor equipment by processing multiple CLI command vocabulary and grammar specifications in the CLI command dictionary. The solution reduces data **network** entity **management** costs, downtime, and training time for analysts. The advantages are derived from the ability to...

...data network entities with human readable code greatly improving the development and maintenance of the **network management** and service provisioning solution.

#### Claims:

**Network management** and service provisioning Command Line Interface (CLI) framework, comprising: **a.** a processor responsive to...

...holding vocabulary and grammar specifications of a plurality of commands used in interacting with at **least** one **managed** data network entity; and **b.** a communications module sending in sequence for execution and...

...of commands generated in response to the notification as specified in the plurality of dictionary **entries** wherein a network management and service provisioning solution is provided making abstraction of the **at least one** managed data network entity...

...A Command Line Interface (CLI) **framework** for a network manager (NM) that manages a plurality of managed entities of a communication network, comprising: a CLI dictionary (530) holding vocabulary and grammar specifications for all...

...sequence of commands required to configure a managed entity that said managed object represents in **response** to said **event** and handling **execution** of said sequence of commands at said managed entity; and a communications module (540) for transmitting said sequence of commands to

said managed entity for execution, and interpreting results **received** from said managed **entity**, wherein a network management and service provisioning solution is provided making abstraction of the type of...

...I/we **claim**: **<b>1</b>**. A network management and service provisioning Command Line Interface (CLI) framework, comprising: a. a processor...

...entries holding vocabulary and grammar specifications of a plurality of commands used in interacting with **at least one** managed data network entity; and c. a communications module sending in sequence for execution and...

...of commands generated in response to the notification as specified in the plurality of dictionary **entries** wherein a network management and service provisioning solution is provided making abstraction of the **at least one** managed data network entity...

...We claim:1. A Command Line Interface (CLI) framework **component** of a Network Management System ( **NMS** ), the NMS managing a plurality of field **installed** managed communications network entities of a communications network, **each** field **installed** managed communications network entity being represented and modeled by an associated managed object instance stored...

...database associated with the NMS, the CLI framework component comprising: a. a CLI dictionary codifying a plurality of managed communications network entity-specific **CLI** commands and maintaining at least one **mapping** between the managed communications network entity-specific CLI commands and a corresponding managed object type;b. a generic processor executing coded logic to: i. detect...

...responsive to the detected event selectively generate a sequence of CLI commands required to configure the field **installed** managed communications network entity **associated** with said managed object instance by consulting the CLI dictionary;iii. handle execution of said sequence of CLI commands at **said** field **installed** managed communications network entity, including interpreting CLI command execution results received from **said** field **installed** managed communications network entity; andiv. generating an error report based on an unsuccessful execution...

...the execution results; andc. a communications module transmitting said sequence of CLI commands to **said** field **installed** managed communications network entity to be executed thereon, and conveying the execution results received from **said** field **installed** managed communications network entity to the generic **processor**, wherein a network management and service provisioning solution is provide **making** abstraction of managed communications network entity types.

Set	Items	Description
S1	1569864	COMPUTER?(2N)SYSTEM? ? OR NETWORK? OR DISTRIBUT? OR ETHERNET? OR INTERNET OR INTRANET? OR LAN OR LANS OR WAN OR WANS OR WLAN? ? OR VLAN? ?
S2	14742	S1(5N)(PROTECT? OR SECUR? OR GUARD? OR FORTIF? OR SHIELD? - OR ENFORC?) (3N)(ACCESS? OR ENTRY OR ENTRIE? ? OR USE??? OR UTILI? OR USING)
S3	3481	S2(5N)(ENFORC? OR CONTROL? OR REGULAT? OR DIRECT? OR MANAG? OR ADMINISTRAT? OR SUSTAIN? OR ORDER??? OR MAINTAIN? OR SUPERVIS???)
S4	195926	(ORDER?())SET? ? OR SEQUEN? OR PATTERN? OR ORDER?) (5N)(LEVEL? OR STEP? ? OR STAGE? OR TIER?? ? OR OPERATION? OR FUNCTION? OR COMMAND?)
S5	26666	S4(5N)(TIME? ? OR TIMING OR TEMPORAL? OR CLOCK? OR DURATION? OR EVENT? OR SCHEDUL? OR OCCASION? OR DAY? ? OR HOUR? ? OR MINUTE? ? OR SECOND? ? OR PERIOD?)
S6	33021	S4:S5(5N)(SECOND? OR COUPLE OR 2ND OR 2 OR DUAL?? OR TWICE OR ANOTHER? OR TWO OR DIFFERENT OR PAIR OR MORE(2N)ONE OR ADDITIONAL)
S7	5876	S6(5N)(PERFORM? OR EXECUT? OR IMPLEMENT? OR OPERATE? ? OR - OPERATING OR ENACT? OR HANDL? OR (CARRY? OR CARRIE? ?)())OUT OR COMPLET? OR ENABL? OR ALLOW?)
S8	54114	(PRESELECT? OR PRE()SELECT? OR (SELECT? OR PICK??? OR CHOOSE? OR DESIGNAT? OR CHOSEN OR IDENT?)())BEFORE? OR PREDETERMIN? OR PRE() (DETERMIN? OR SPECIF?)) (5N)(ACCESS? OR ENTRY OR ENTRIE? ? OR USE??? OR UTILI?)
S9	1	S3 AND S7 AND S8
S10	126	S3 AND ENFORC?(3N)SECUR?
S11	3	S10 AND S8
S12	2	S2:S3 AND S7 AND S8
S13	1	S12 NOT (S9 OR S11)
S14	22	S2:S3 AND S4:S5 AND S8
S15	19	S14 NOT (S9 OR S11:S13)
S16	126817	(DELIVER? OR SEND??? OR SENT OR UPLOAD? OR DISTRIBUT? OR TRANSFER? OR TRANSMI? OR BEAM??? OR LOAD??? OR POST??? ?) (5N)(- SEARCH? OR RESEARCH? OR RETRIEV? OR INQUIR? OR QUERY? OR QUERIE? ? OR REQUEST? OR ASK???)
S17	274804	(RETRIEV? OR RECEIV??? OR ACCEPT? OR ACQUIR? OR OBTAIN? OR DOWNLOAD? OR FETCH??? OR ACCESS?) (5N)(SEARCH? OR RESEARCH? OR RETRIEV? OR INQUIR? OR QUERY? OR QUERIE? ? OR REQUEST? OR ASK???)
S18	4	S15 AND S16:S17
S19	15	S15 NOT S18
S20	13	AU=(KOVARIK V? OR KOVARIK, V?)
S21	0	(VINCENT OR VINCE OR VINNIE) (2N) KOVARIK
S22	1	S20 AND S2:S3

File 350:Derwent WPIX 1963-2007/UD=200752

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File 347:JAPIO Dec 1976-2007/Mar(Updated 070809)

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*Abstract lat. files  
(2)*

# \* Your Assignee \*\*

11/69,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0015307045 - Drawing available  
WPI ACC NO: 2005-657227/200567  
XRPX Acc No: N2005-538483

Secure access method in computer system, involves granting access request only, if access request does not complete prohibited temporal access pattern and minimum access level for base node does not exceed predetermined access level

Patent Assignee: HARRIS CORP (HARO)

Inventor: KOVARIK V J

Patent Family (5 patents, 40 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 20050204131	A1	20050915	US 2004798074	A	20040311	200567 B
CA 2499986	A1	20050911	CA 2499986	A	20050309	200567 E
EP 1577735	A2	20050921	EP 20055394	A	20050311	200567 E
JP 2005259146	A	20050922	JP 200565879	A	20050309	200567 E
CN 1667544	A	20050914	CN 200510054559	A	20050311	200607 E

Priority Applications (no., kind, date): US 2004798074 A 20040311

## Patent Details

Number	Kind	Lañ	Pg	Dwg	Filing	Notes
US 20050204131	A1	EN	18	10		
CA 2499986	A1	EN				
EP 1577735	A2	EN				

Regional Designated States,Original: AL AT BA BE BG CH CY CZ DE DK EE ES  
FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU  
JP 2005259146 A JA 17

## Alerting Abstract US A1

NOVELTY - The method involves determining if access request from entity with predetermined access level, completes a prohibited temporal access pattern for entity. A minimum access level established for base node (110) is compared to predetermined access level. The access request is granted only, if the access request does not complete the access pattern and minimum access level does not exceed predetermined access level.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.method for restricting access to computer system; and
- 2.computer system.

USE - For secure access computer system.

ADVANTAGE - Enables maintaining the access authorities for each user dynamically, thereby allowing system objects to have multiple level of access classification based on historical access by each user.

DESCRIPTION OF DRAWINGS - The figure shows the data primitives and hierarchical graph for secure access to computer system.

1021-1024 object types

1041-1043 system functions

110 base node

112 higher level node

Title Terms/Index Terms/Additional Words: SECURE; ACCESS; METHOD; COMPUTER; SYSTEM; REQUEST; COMPLETE; PROHIBIT; TEMPORAL; PATTERN; MINIMUM; LEVEL; BASE; NODE; PREDETERMINED

#### Class Codes

International Classification (Main): G06F-001/00, G06F-012/14, H04L-009/00  
US Classification, Issued: 713166000

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): T01-H01C2; T01-J12C; T01-N02B1B; W01-A06E1C

...complete prohibited temporal access pattern and minimum access level for base node does not exceed predetermined access level

#### Original Titles:

...Method and system enforcing computer security utilizing an adaptive lattice mechanism...

... ENFORCING COMPUTER SECURITY UTILIZING ADAPTIVE LATTICE MECHANISM...

... Enforcing computer security utilizing an adaptive lattice mechanism  
...NOVELTY - The method involves determining if access request from entity with predetermined access level, completes a prohibited temporal access pattern for entity. A minimum access level established for base node (110) is compared to predetermined access level. The access request is granted only, if the access request does not complete the access pattern and minimum access level does not exceed predetermined access level.

#### Original Publication Data by Authority

#### Original Abstracts:

...the computer system a request from an entity (using 1002). The entity can have a predetermined access authorization level for access to a first base node (110) representing an information type (102) or a computer system function (104). The system...

...access pattern for the entity. The system also compares a minimum access level established for the first base node to the predetermined access authorization level assigned to the entity. Thereafter, the system can grant the access request only if the minimum access level for the first base node does not exceed to the predetermined access authorization level.

...

...the computer system a request from an entity (using <b>1002</b>). The entity can have a predetermined access authorization level for access to a first base node (<b>110</b>) representing an information type (<b>102</b>) or a computer system function (<b>104</b>). The system determines if the access request completes a prohibited temporal...

...entity. The system also compares a minimum access level established for the first base node to the predetermined access authorization level assigned to the entity. Thereafter, the system can grant the access request only if the minimum access level for the first base node does not exceed to the predetermined access authorization level.

#### Claims:

...the steps of:receiving in said computer system a request from an entity with a predetermined access level for access to a first base node representing at least one of an information type and a computer system function;determining...

...for said entity; and comparing a minimum access level established for said first base node to said **predetermined access** level; and granting said **access** request **only if** it does not complete a prohibited temporal access pattern for said entity, and said minimum access level for said first base node does not exceed said **predetermined access** level.

...

...computer system, comprising the steps of: receiving in said computer system a request from an **entity** with a **predetermined access** level for **access** to a first base node representing at least one of an information type and a **computer system** function; determining **if** said **access** request completes a prohibited temporal access pattern for said entity; and comparing a minimum access level established for said first base **node** to said **predetermined access** level; and granting said **access** request **only if** it does not complete a prohibited temporal access pattern for said entity, and said **minimum access** level for said first base node **does** not exceed said **predetermined access** level.



13/69,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0001862168

WPI ACC NO: 1979-K8815B/197947

**Authenticating identity of user of information system - transferring terminal user authentication pattern with identification number to host data processing system**

Patent Assignee: IBM CORP (IBMC)

Inventor: MATYAS S M; MEYER C H W

**Patent Family** (5 patents, 5 countries)

Patent			Application			Update	
Number	Kind	Date	Number	Kind	Date		
EP 5179	A	19791114	EP 1979101038	A	19790405	197947	B
US 4218738	A	19800819	US 1978903286	A	19780505	198036	E
CA 1111563	A	19811027				198148	E
EP 5179	B	19830518	EP 1979101038	A	19790405	198321	E
DE 2965420	G	19830707				198328	E

Priority Applications (no., kind, date): EP 1979101038 A 19790405; US 1978903286 A 19780505

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 5179	A	EN				
Regional Designated States,Original: DE FR GB IT						
CA 1111563	A	EN				
EP 5179	B	EN				
Regional Designated States,Original: DE FR GB IT						

#### Alerting Abstract EP A

A process confirms the identity of a terminal user provided with an identification number and a secret password in a system providing data communication between a terminal and a host data processing system each having cryptographic appts. The identification number and password are used at the terminal to obtain a terminal user authentication pattern which is transferred with the identification number from the terminal to the host d.p.s.

At the host d.p.s. an operation is performed in accordance with a predetermined number provided by the host and the terminal user identification number to obtain a terminal user first verification pattern. The latter is compared with a second verification pattern obtained at the host d.p.s. in accordance with a **predetermined** terminal **user** test pattern provided at the host d.p.s. and the terminal user authentication pattern.

The process authenticates the identity of a terminal user provided with an identification number and a secret password more securely than customary.

**Title Terms/Index Terms/Additional Words:** AUTHENTICITY; IDENTIFY; USER; INFORMATION; SYSTEM; TRANSFER; TERMINAL; PATTERN; NUMBER; HOST; DATA; PROCESS

#### Class Codes

International Classification (Main): G06F-013/00

(Additional/Secondary): G06F-003/00, G07C-011/00, H04K-001/00

US Classification, Issued: 380025000, 340825310, 364DIG002, 364222200, 364222500, 364228400, 364234000, 364235000, 364236200, 364236300, 364238300, 364248100, 364248200, 364259000, 364259200, 380045000

File Segment: EPI;  
DWPI Class: T01; T05

**Alerting Abstract** ...a second verification pattern obtained at the host d.p.s. in accordance with a **predetermined** terminal **user** test pattern provided at the host d.p.s. and the terminal user authentication pattern...

**Original Publication Data by Authority**

**Original Abstracts:**

...authentication processing. This is accomplished by providing terminal user identification numbers and passwords and a **predetermined number** at the host data processing system. A first initialization operation is performed at the host...

...in accordance with the terminal user identification numbers and passwords to obtain terminal user authentication **patterns**. A **second** initialization **operation** is **performed** at the host **data** processing **system** in accordance with the **predetermined** number and the terminal **user** identification numbers to obtain terminal **user** first **verification** patterns. A third initialization operation is performed at the host data processing system in accordance...

...during authentication processing and for generating test patterns during the secure run is disclosed which **uses** a variation of the host computer master **key** to reduce risk of **compromise** of total **system security**. The **use** of a variant of the host master key prevents system programmers and/or computer operators...

?

18/69,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0016174489 - Drawing available  
WPI ACC NO: 2006-706129/200673  
XRPX Acc No: N2006-555460

Security apparatus for use in telecommunication system , has computer  
for providing user authorization by comparing authorization user input  
to security code based on retrieved user profile

Patent Assignee: ACCESSLINE COMMUNICATIONS CORP (ACCE-N)

Inventor: EPLER F A; KNIGHT J M; STENSBERG P A; ZHUK O V

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 7106845	B1	20060912	US 2000604283	A	20000626	200673 B

Priority Applications (no., kind, date): US 2000604283 A 20000626

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 7106845	B1	EN	27	11	

#### Alerting Abstract US B1

NOVELTY - The apparatus has a database storing a user profile indicating a set of security modes selectable by the user. A computer communicates with the database to receive telecommunication data transmissions. The computer stores selected security mode in the user profile corresponding to the user. The computer provides user authorization by comparing authorization user input to a security code based on the **retrieved** user profile.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.a method of providing security for a telecommunication system
- 2.a computer-readable signal bearing medium storing instructions for a computer for providing security for a telecommunication system
- 3.a user prompt signal for providing security for a telecommunication system.

USE - Used in a telecommunication system for telecommunication company, professional service provider such as doctor, lawyer and accountant, financial institution such as bank and securities broker and insurance company.

ADVANTAGE - The computer compares the authorization user input to the security code based on the **retrieved** user profile to provide user authorization, thus effectively providing user security and access to the telecommunication system.

DESCRIPTION OF DRAWINGS - The drawing shows a block diagram of a suitable environment employing a dynamic security system.

Title Terms/Index Terms/Additional Words: SECURE; APPARATUS;  
TELECOMMUNICATION; SYSTEM; COMPUTER; USER; AUTHORISE; COMPARE; INPUT;  
CODE; BASED; **RETRIEVAL** ; PROFILE

#### Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

H04M-0003/42 A I F B 20060101

US Classification, Issued: 379207110, 379201120, 379189000, 455410000

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): T01-N02B1B; T01-S03; W01-A05B; W01-C02B6

Security apparatus for use in telecommunication system , has computer for providing user authorization by comparing authorization user input to security code based on retrieved user profile

**Alerting Abstract** ...provides user authorization by comparing authorization user input to a security code based on the **retrieved** user profile....ADVANTAGE - The computer compares the authorization user input to the security code based on the **retrieved** user profile to provide user authorization, thus effectively providing user security and access to the ...

**Title Terms...**/Index Terms/Additional Words: **RETRIEVAL** ;

#### **Original Publication Data by Authority**

#### **Original Abstracts:**

...typically only the user would know. Another level of security employs voice fingerprinting or voice **pattern** recognition. Yet another **level** employs a N by M matrix of random numbers, from which a **user** selects numbers from **predetermined** positions to generate a current security code. Various levels of security may be performed on...

#### **Claims:**

...user profile corresponds to the user, in response to a telecommunications call from the user, **retrieve** the at least one user profile, receive authorization user input, and provide user authorization by comparing the received authorization user input to a security code based on the **retrieved** user profile, wherein the security code is an automatically and dynamically generated user security code...

...wherein the plurality of security modes includes a current time sequence recognition mode wherein the **user** security code is based on **predetermined** numerical sequence based on an hour of day, day of week, day of month and...

\* AU IIN srch = your Assignee / In

22/69,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0015307045 - Drawing available  
WPI ACC NO: 2005-657227/200567  
XRPX Acc No: N2005-538483

Secure access method in computer system , involves granting access request only, if access request does not complete prohibited temporal access pattern and minimum access level for base node does not exceed predetermined access level

Patent Assignee: HARRIS CORP (HARO)  
Inventor: KOVARIK V J

Patent Family (5 patents, 40 countries)

Patent				Application			
Number	Kind	Date	Number	Kind	Date	Update	
US 20050204131	A1	20050915	US 2004798074	A	20040311	200567	B
CA 2499986	A1	20050911	CA 2499986	A	20050309	200567	E
EP 1577735	A2	20050921	EP 20055394	A	20050311	200567	E
JP 2005259146	A	20050922	JP 200565879	A	20050309	200567	E
CN 1667544	A	20050914	CN 200510054559	A	20050311	200607	E

Priority Applications (no., kind, date): US 2004798074 A 20040311

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20050204131	A1	EN	18	10	
CA 2499986	A1	EN			
EP 1577735	A2	EN			

Regional Designated States,Original: AL AT BA BE BG CH CY CZ DE DK EE ES  
FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU  
JP 2005259146 A JA 17

Alerting Abstract US A1

NOVELTY - The method involves determining if access request from entity with predetermined access level, completes a prohibited temporal access pattern for entity. A minimum access level established for base node (110) is compared to predetermined access level. The access request is granted only, if the access request does not complete the access pattern and minimum access level does not exceed predetermined access level.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.method for restricting access to computer system; and
- 2.computer system.

USE - For secure access computer system .

ADVANTAGE - Enables maintaining the access authorities for each user dynamically, thereby allowing system objects to have multiple level of access classification based on historical access by each user.

DESCRIPTION OF DRAWINGS - The figure shows the data primitives and hierarchical graph for secure access to computer system .

- 1021-1024 object types
- 1041-1043 system functions
- 110 base node
- 112 higher level node

Title Terms/Index Terms/Additional Words: SECURE; ACCESS; METHOD; COMPUTER; SYSTEM; REQUEST; COMPLETE; PROHIBIT; TEMPORAL; PATTERN; MINIMUM; LEVEL; BASE; NODE; PREDETERMINED

## Class Codes

International Classification (Main): G06F-001/00, G06F-012/14, H04L-009/00  
US Classification, Issued: 713166000

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): T01-H01C2; T01-J12C; T01-N02B1B; W01-A06E1C

Secure access method in computer system , involves granting access request only, if access request does not complete prohibited temporal access pattern and minimum access...

## Original Titles:

...Method and system enforcing computer security utilizing an adaptive lattice mechanism...

Inventor: KOVARIK V J

Alerting Abstract ... USE - For secure access computer system .  
...

...DESCRIPTION OF DRAWINGS - The figure shows the data primitives and hierarchical graph for secure access to computer system .

## Original Publication Data by Authority

Inventor name & address:

KOVARIK V J ...

... Kovarik, Vincent Joseph, Jr ...

... KOVARIK VINCENT JOSEPH JR ...

... Kovarik, Vincent Joseph JR

## Original Abstracts:

Method and apparatus for ensuring secure access to a computer system (1000). The method can begin with the step of receiving in the computer system a request from an entity...

...Method and apparatus for ensuring secure access to a computer system (<b>1000</b>). The method can begin with the step of receiving in the computer system a request from an entity ( using <b>1002</b>). The entity can have a predetermined access authorization level for access to a first...

## Claims:

A method for secure access to a computer system , comprising the steps of:receiving in said computer system a request from an entity with a predetermined...

...<b>1</b>. A method for secure access to a computer system , comprising the steps of:receiving in said computer system a request from an entity with a predetermined access level for access to a first base node representing at least one of an information type and a...  
?

Set	Items	Description
S1	883612	COMPUTER?(2N) (SYSTEM? ? OR SECUR?) OR NETWORK? OR DISTRIBUT? OR ETHERNET? OR INTERNET OR INTRANET? OR LAN OR LANS OR WAN OR WANS OR WLAN? ? OR VLAN? ?
S2	14705	S1(7N) ((PROTECT? OR SECUR? OR GUARD? OR FORTIF? OR SHIELD?- ) (5N) (ACCESS? OR ENTRY OR ENTRIE? ? OR USE??? OR UTILI? OR USING))
S3	3588	S2(7N) (ENFORC? OR CONTROL? OR REGULAT? OR DIRECT? OR MANAG? OR ADMINISTRAT? OR SUSTAIN? OR ORDER??? OR MAINTAIN? OR SUPERVIS???)
S4	374666	(ORDER?()) SET? ? OR SEQUEN? OR PATTERN? OR ORDER? OR SEQUENTIAL? OR SERIE?? OR SERIAL?? OR IN() ORDER? OR CONTIGU? OR CONSECUT? OR SERIAT? OR STEPWISE? OR CONSECUT? OR ONE() AFTER(2W- ) (OTHER OR ANOTHER)) (5N) (LEVEL? OR STEP? ? OR STAGE? OR TIER?? ? OR OPERATION? OR FUNCTION? OR COMMAND?)
S5	47231	S4(5N) (TIME? ? OR TIMING OR TEMPORAL? OR CLOCK? OR DURATION? OR EVENT? OR SCHEDUL? OR OCCASION? OR DAY? ? OR HOUR? ? OR MINUTE? ? OR SECOND? ? OR PERIOD?)
S6	90467	S4:S5(7N) (SECOND? OR COUPLE OR 2ND OR 2 OR DUAL?? OR TWICE OR ANOTHER? OR TWO OR DIFFERENT OR PAIR OR MORE(2N) ONE OR ADDITIONAL)
S7	17781	S6(7N) (PERFORM? OR EXECUT? OR IMPLEMENT? OR OPERATE? ? OR - OPERATING OR ENACT? OR HANDL? OR (CARRY? OR CARRIE? ?) () OUT OR COMPLET? OR ENABL? OR ALLOW?)
S8	70957	(PRESELECT? OR PRE() SELECT? OR (SELECT? OR PICK??? OR CHOOSE? OR DESIGNAT? OR CHOSEN OR IDENT?) () BEFORE? OR PREDETERMIN? OR PRE() (DETERMIN? OR SPECIF?)) (5N) (ACCESS? OR ENTRY OR ENTRIE? ? OR USE??? OR UTILI?)
S9	101478	(DELIVER? OR SEND??? OR SENT OR UPLOAD? OR DISTRIBUT? OR TRANSFER? OR TRANSMI? OR BEAM??? OR LOAD??? OR POST??? ?) (5N) (- SEARCH? OR RESEARCH? OR RETRIEV? OR INQUIR? OR QUERY? OR QUERIE? ? OR REQUEST? OR ASK???)
S10	211155	(RETRIEV? OR RECEIV??? OR ACCEPT? OR ACQUIR? OR OBTAIN? OR DOWNLOAD? OR FETCH??? OR ACCESS?) (5N) (SEARCH? OR RESEARCH? OR RETRIEV? OR INQUIR? OR QUERY? OR QUERIE? ? OR REQUEST? OR ASK???)
S11	6	S2:S3(100N) S7(100N) S8(100N) S9:S10
S12	15	S2:S3(100N) S4:S5(100N) S8(100N) S9:S10
S13	18	S11:S12
S14	5	AU=(KOVARIK V? OR KOVARIK, V?)
S15	3	(VINCENT OR VINCE OR VINNIE) (2N) KOVARIK
S16	0	S14:S15(100N) S1(100N) S2:S3
S17	0	S14:S15(100N) S4(100N) S8(100N) S9:S10
S18	0	S14:S15(100N) S1

File 348:EUROPEAN PATENTS 1978-2007/ 200732

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File 349:PCT FULLTEXT 1979-2007/UB=20070809UT=20070802

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*Full Text Pat. Files*

13/5,K/17 (Item 9 from file: 349)  
(DIALOG(R) File 349:PCT:FULLTEXT)  
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00571474 \*\*Image available\*\*

**COMPUTER NETWORK INTRUSION DETECTION**  
**DETECTION D'INTRUSION DANS UN RESEAU INFORMATIQUE**

Patent Applicant/Assignee:

VISA INTERNATIONAL SERVICE ASSOCIATION,  
DIEP Thanh A,

Inventor(s):

DIEP Thanh A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200034847 A1 20000615 (WO 0034847)

Application: WO 99US29080 19991207 (PCT/WO US9929080)

Priority Application: US 98208617 19981208

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB  
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD  
MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG  
US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU  
TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG  
CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class (v7): G06F-001/00

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11423

**English Abstract**

Detecting harmful or illegal intrusions into a computer network or into restricted portions of a computer network uses statistical analysis to match user commands and program names with a template sequence. Discrete correlation matching and permutation matching are used to match sequences. The result of the match is input to a feature builder and then a modeler to produce a score. The score indicates possible intrusion. A sequence of user commands and program names and a template sequence of known harmful commands and program names from a set of such templates are retrieved. A closeness factor indicative of the similarity between the user command sequence and a template sequence is derived from comparing the two sequences. The user command sequence is compared to each template sequence in the set of templates thereby creating multiple closeness or similarity measurements. These measurements are examined to determine which sequence template is most similar to the user command sequence. A frequency feature associated with the user command sequence and the most similar template sequence is calculated. It is determined whether the user command sequence is a potential intrusion into restricted portions of the computer network by examining output from a modeler using the frequency feature as one input.

**French Abstract**

L'invention concerne la detection d'intrusions nuisibles ou illeghes dans un reseau informatique ou dans des parties reservees dudit reseau, qui consiste a utiliser des analyses statistiques pour comparer des commandes d'utilisateur et des noms de programmes a une sequence modele. Une correspondance de correlation et une correspondance de permutation discretes servent a comparer des sequences. Le resultat de la correspondance est introduit dans un realisateur de caracteristiques,



puis dans un modeliseur pour etablir une cote, laquelle permet d'indiquer une intrusion possible. Une sequence de commandes d'utilisateur et de noms de programmes, ainsi qu'une sequence modele de commandes et de noms de programmes nuisibles provenant de tels modeles sont recherchees. Un facteur de proximite, indiquant la similitude entre la sequence de commandes d'utilisateur et la sequence modele, est deduit de la comparaison des deux sequences. La sequence de commandes d'utilisateur est comparee a chaque sequence modele de l'ensemble de modeles. On etablit ainsi plusieurs mesures de proximite ou de similitude. L'examen de ces mesures permet de determiner la sequence modele qui presente le plus de similitudes avec la sequence de commandes d'utilisateur. Une caracteristique de frequence, associee a la sequence de commandes d'utilisateur et a la sequence modele qui presente le plus de similitudes, est calculee. On determine si la sequence de commandes d'utilisateur constitue une intrusion potentielle dans des parties reservees du reseau informatique en examinant le resultat d'un modeliseur au moyen de la caracteristique de frequence en tant qu'une entree.

Fulltext Availability:  
Detailed Description

#### Detailed Description

... set of templates is created and can be added to whenever a newly identified suspicious **command** sequence is discovered. The process of generating templates of command sequences is then complete.

Related...

...is analyzed, the program selects the first template from  
1 4  
template set 14, and **retrieves** the next template in the second iteration, as described below in step 5 1 0...

...Y selection can be based on other criteria such as frequency, importance, or length.

At **step** 506 input **sequence** X ...input sequence X being analyzed  
1 5  
as shown in FIG. 5. Template Y' is **retrieved** at step 602. Examples of other features are the number of audit records processed for...

...all sequences entered by the same user during time period T. Preferably, the duration of **time** period T used in this **step** is greater than the **sequence** length of the input **sequence** from **step** 306.

io Thus, if the user input **sequence** contains **commands** and program names entered by a user over 30 minutes, time period T is preferably...

...program to calculate an average occurrence or frequency level dynamically without having to store and **retrieve** from memory the multiple values that would be needed to calculate a static average. A...

Examination: 051130 A2 Date of request for examination: 20051005  
Change: 060517 A2 Title of invention (German) changed: 20060517  
Change: 060517 A2 Title of invention (English) changed: 20060517  
Change: 060517 A2 Title of invention (French) changed: 20060517  
Change: 061213 A2 Title of invention (German) changed: 20061213  
Change: 061213 A2 Title of invention (English) changed: 20061213  
Change: 061213 A2 Title of invention (French) changed: 20061213  
Grant: 070516 B1 Granted patent

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200442	575
CLAIMS B	(English)	200720	404
CLAIMS B	(German)	200720	390
CLAIMS B	(French)	200720	436
SPEC A	(English)	200442	6252
SPEC B	(English)	200720	5715
Total word count - document A			6828
Total word count - document B			6945
Total word count - documents A + B			13773

...SPECIFICATION phone carried by the user exists in registered specific area where the user makes a **request** for a video information **distribution** service to be provided and the traffic of the radio channel connected to the mobile phone carried by the **user** is lower than the **predetermined** threshold, video information about the specific area is distributed from the video contents server to the mobile phone based on push technology, so that the **user** can **securely** be **distributed** with, for example, video information of commercial, guidance or the like about the specific area...

...a predetermined time period, but displaying the distributed video information is restricted within the predetermined **time in order** to prevent the **function** of the mobile phone from be occupied with displaying the distributed video information. After the...

...SPECIFICATION phone carried by the user exists in registered specific area where the user makes a **request** for a video information **distribution** service to be provided and the traffic of the radio channel connected to the mobile phone carried by the **user** is lower than the **predetermined** threshold, video information about the specific area is distributed from the video contents server to the mobile phone based on push technology, so that the **user** can **securely** be **distributed** with, for example, video information of commercial, guidance or the like about the specific area...

...a predetermined time period, but displaying the distributed video information is restricted within the predetermined **time in order** to prevent the **function** of the mobile phone from be occupied with displaying the distributed video information. After the...

Set	Items	Description
S1	12454539	COMPUTER?(2N)(SYSTEM? ? OR SECUR?) OR NETWORK? OR COMPUTER? OR DISTRIBUT? OR ETHERNET? OR INTERNET OR INTRANET? OR LAN OR LANS OR WAN OR WANS OR WLAN? ? OR VLAN? ?
S2	22262	S1(7N)((PROTECT? OR SECUR? OR GUARD? OR FORTIF? OR SHIELD?-(5N)(ACCESS? OR ENTRY? OR ENTRIE? ? OR ENTREE? OR USE??? OR -UTILI? OR USING))
S3	6211	S2(7N)(ENFORC? OR CONTROL? OR REGULAT? OR DIRECT? OR MANAG? OR ADMINISTRAT? OR SUSTAIN? OR ORDER??? OR MAINTAIN? OR SUPERVIS???)
S4	475945	(ORDER?())SET? ? OR SEQUEN? OR PATTERN? OR ORDER?OR SEQUENTIAL? OR SERIE?? OR SERIAL?? OR IN()ORDER? OR CONTIGU? OR CONSECUT? OR SERIAT? OR STEPWISE? OR CONSECUT? OR ONE()AFTER(2W-)(OTHER OR ANOTHER)) (5N)(LEVEL? OR STEP? ? OR STAGE? OR TIER?? ? OR OPERATION? OR FUNCTION? OR COMMAND?)
S5	38489	S4(5N)(TIME? ? OR TIMING OR TEMPORAL? OR CLOCK? OR DURATION? OR EVENT? OR SCHEDUL? OR OCCASION? OR DAY? ? OR HOUR? ? OR MINUTE? ? OR SECOND? ? OR PERIOD?)
S6	64248	S4:S5(7N)(SECOND? OR COUPLE OR 2ND OR 2 OR DUAL?? OR TWICE OR ANOTHER? OR TWO OR DIFFERENT OR PAIR OR MORE(2N)ONE OR ADDITIONAL)
S7	5797	S6(7N)(PERFORM? OR EXECUT? OR IMPLEMENT? OR OPERATE? ? OR -OPERATING OR ENACT? OR HANDL? OR (CARRY? OR CARRIE? ?)()OUT OR COMPLET? OR ENABL? OR ALLOW?)
S8	4102	(PRESELECT? OR PRE()SELECT? OR (SELECT? OR PICK??? OR CHOOSE? OR DESIGNAT? OR CHOSEN OR IDENT?)( )BEFORE? OR PREDETERMIN? OR PRE() (DETERMIN? OR SPECIF?)) (5N)(ACCESS? OR ENTRY OR ENTRIE? ? OR USE??? OR UTILI?)
S9	144801	(DELIVER? OR SEND??? OR SENT OR UPLOAD? OR DISTRIBUT? OR TRANSFER? OR TRANSMI? OR BEAM??? OR LOAD??? OR POST??? ?) (5N)(-SEARCH? OR RESEARCH? OR RETRIEV? OR INQUIR? OR QUERY? OR QUERIE? ? OR REQUEST? OR ASK???)
S10	489980	(RETRIEV? OR RECEIV??? OR ACCEPT? OR ACQUIR? OR OBTAIN? OR DOWNLOAD? OR FETCH??? OR ACCESS?) (5N)(SEARCH? OR RESEARCH? OR RETRIEV? OR INQUIR? OR QUERY? OR QUERIE? ? OR REQUEST? OR ASK-???)
S11	0	S2:S3 AND S7 AND S8
S12	1	S2:S3 AND S4:S5 AND S8
S13	0	S7 AND S8 AND S9:S10
S14	150	AU=(KOVARIK V? OR KOVARIK, V?)
S15	0	(VINCENT OR VINCE OR VINNIE) (2N) KOVARIK
S16	21	S14 AND S1:S3
S17	0	S16 AND S4 AND S8
S18	0	S16 AND S9:S10
S19	15	RD S16 (unique items)
File	2:INSPEC 1898-2007/Aug W1	(c) 2007 Institution of Electrical Engineers
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*Abstract Npl. files  
\* Nothing found*

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Set	Items	Description
S1	21442996	COMPUTER?(2N)(SYSTEM? ? OR SECUR?) OR NETWORK? OR COMPUTER? OR DISTRIBUT? OR ETHERNET? OR INTERNET OR INTRANET? OR LAN OR LANS OR WAN OR WANS OR WLAN? ? OR VLAN? ?
S2	283082	S1(7N)((PROTECT? OR SECUR? OR GUARD? OR FORTIF? OR SHIELD?-(5N)(ACCESS? OR ENTRY OR ENTRIE? ? OR USE??? OR UTILI? OR USING))
S3	84610	S2(7N)(ENFORC? OR CONTROL? OR REGULAT? OR DIRECT? OR MANAG? OR ADMINISTRAT? OR SUSTAIN? OR ORDER??? OR MAINTAIN? OR SUPERVIS???)
S4	307166	(ORDER?())SET? ? OR SEQUEN? OR PATTERN? OR ORDER?OR SEQUENTIAL? OR SERIE?? OR SERIAL?? OR IN()ORDER? OR CONTIGU? OR CONSECUT? OR SERIAT? OR STEPWISE? OR CONSECUT? OR ONE()AFTER(2W-)(OTHER OR ANOTHER))(5N)(LEVEL? OR STEP? ? OR STAGE? OR TIER?? ? OR OPERATION? OR FUNCTION? OR COMMAND?)
S5	23579	S4(5N)(TIME? ? OR TIMING OR TEMPORAL? OR CLOCK? OR DURATION? OR EVENT? OR SCHEDUL? OR OCCASION? OR DAY? ? OR HOUR? ? OR MINUTE? ? OR SECOND? ? OR PERIOD?)
S6	33087	S4:S5(7N)(SECOND? OR COUPLE OR 2ND OR 2 OR DUAL?? OR TWICE OR ANOTHER? OR TWO OR DIFFERENT OR PAIR OR MORE(2N)ONE OR ADDITIONAL)
S7	4917	S6(7N)(PERFORM? OR EXECUT? OR IMPLEMENT? OR OPERATE? ? OR - OPERATING OR ENACT? OR HANDL? OR (CARRY? OR CARRIE? ?)())OUT OR COMPLET? OR ENABL? OR ALLOW?)
S8	9378	(PRESELECT? OR PRE()SELECT? OR (SELECT? OR PICK??? OR CHOOSE? OR DESIGNAT? OR CHOSEN OR IDENT?)(BEFORE? OR PREDETERMIN? OR PRE()(DETERMIN? OR SPECIF?))(5N)(ACCESS? OR ENTRY OR ENTRIE? ? OR USE??? OR UTILI?)
S9	0	S2:S3(100N)S7(100N)S8
S10	5	S2:S3(100N)S4(100N)S8
File 275:Gale Group Computer DB(TM) 1983-2007/Jul 24 (c) 2007 The Gale Group		
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DATE: October 31, 1995

08:36 EST

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to trigger a **series** of processing **steps** across multiple applications in  
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